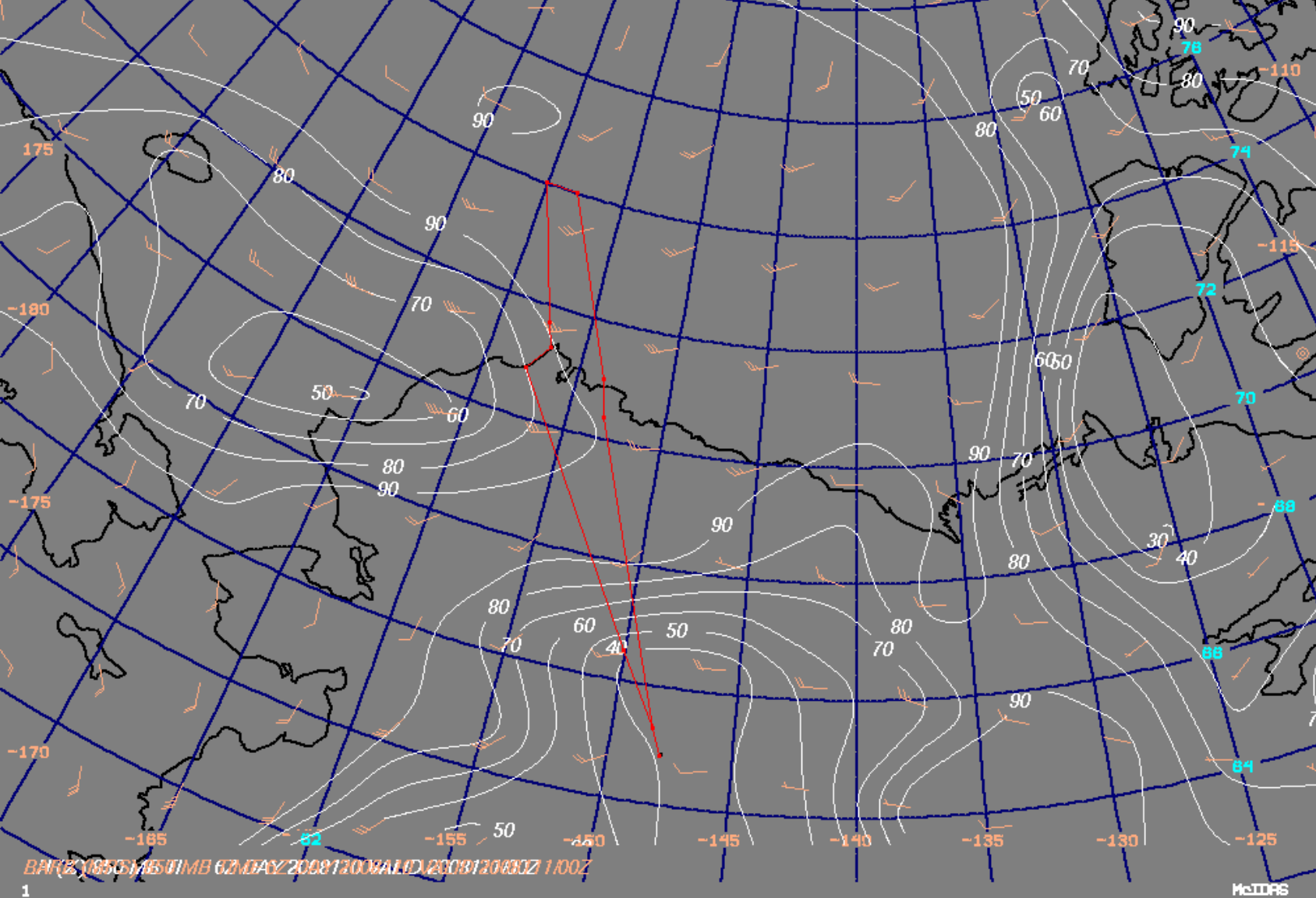
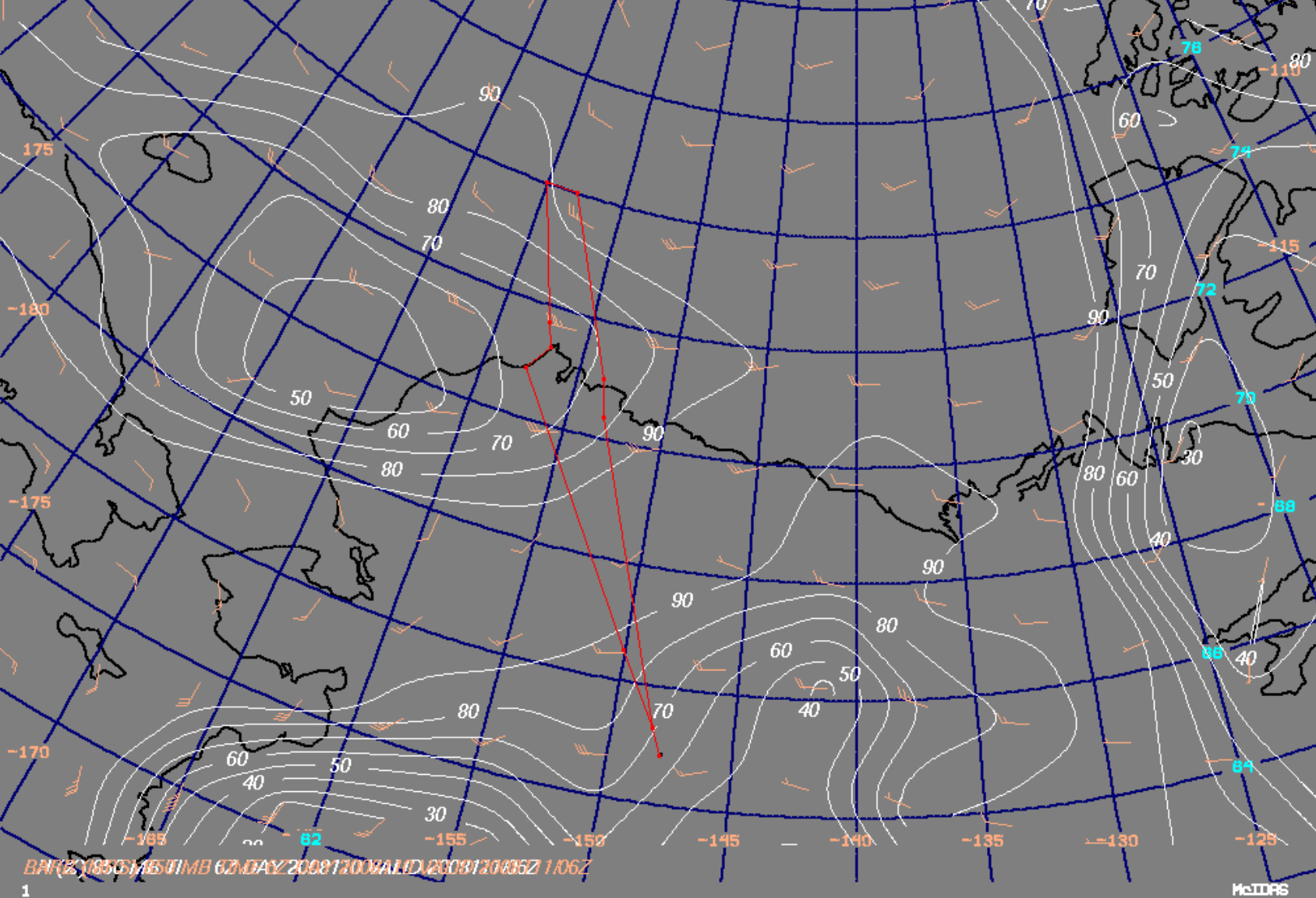


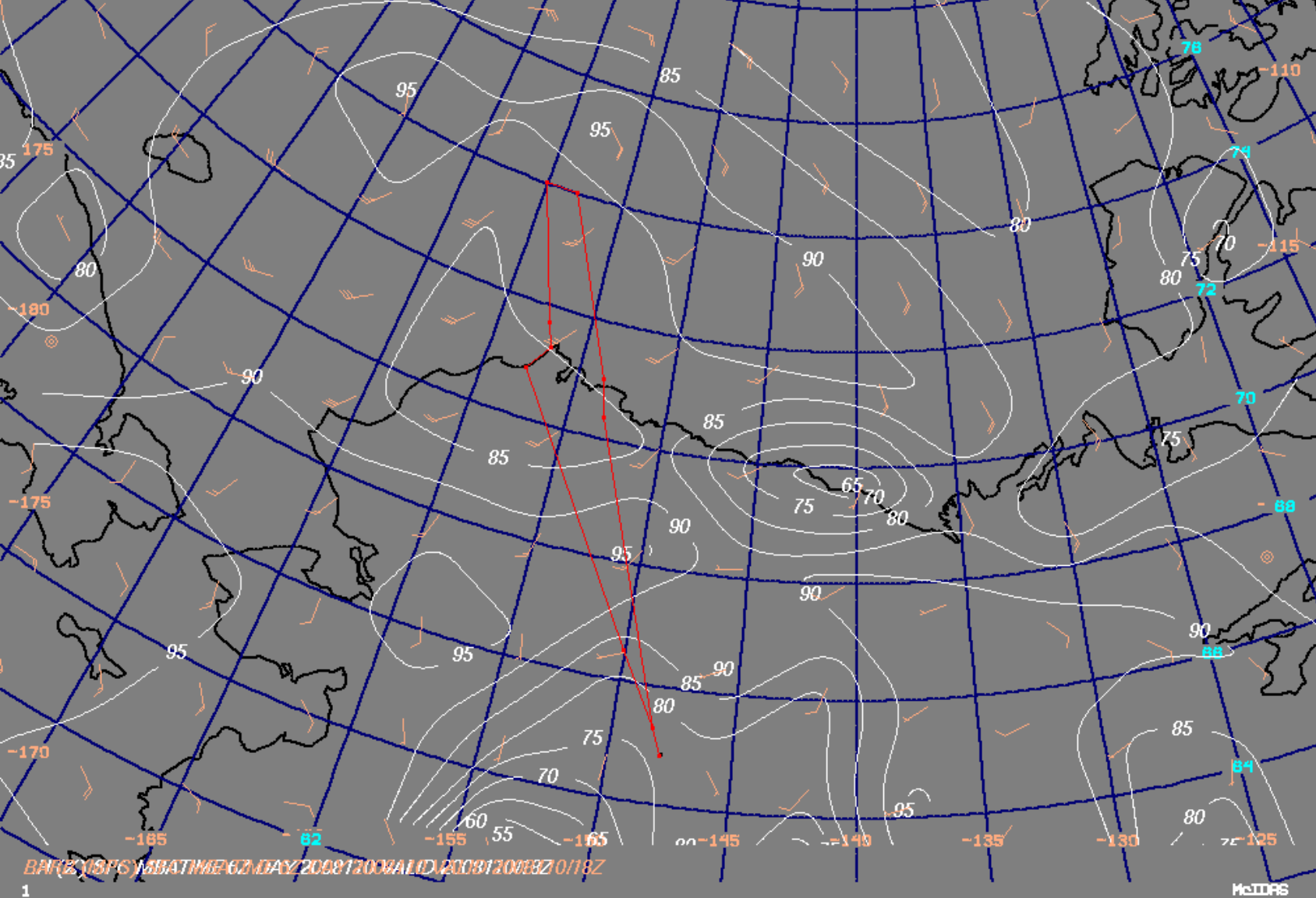
GFS 850 RH and winds, 10:00 AM local, Saturday



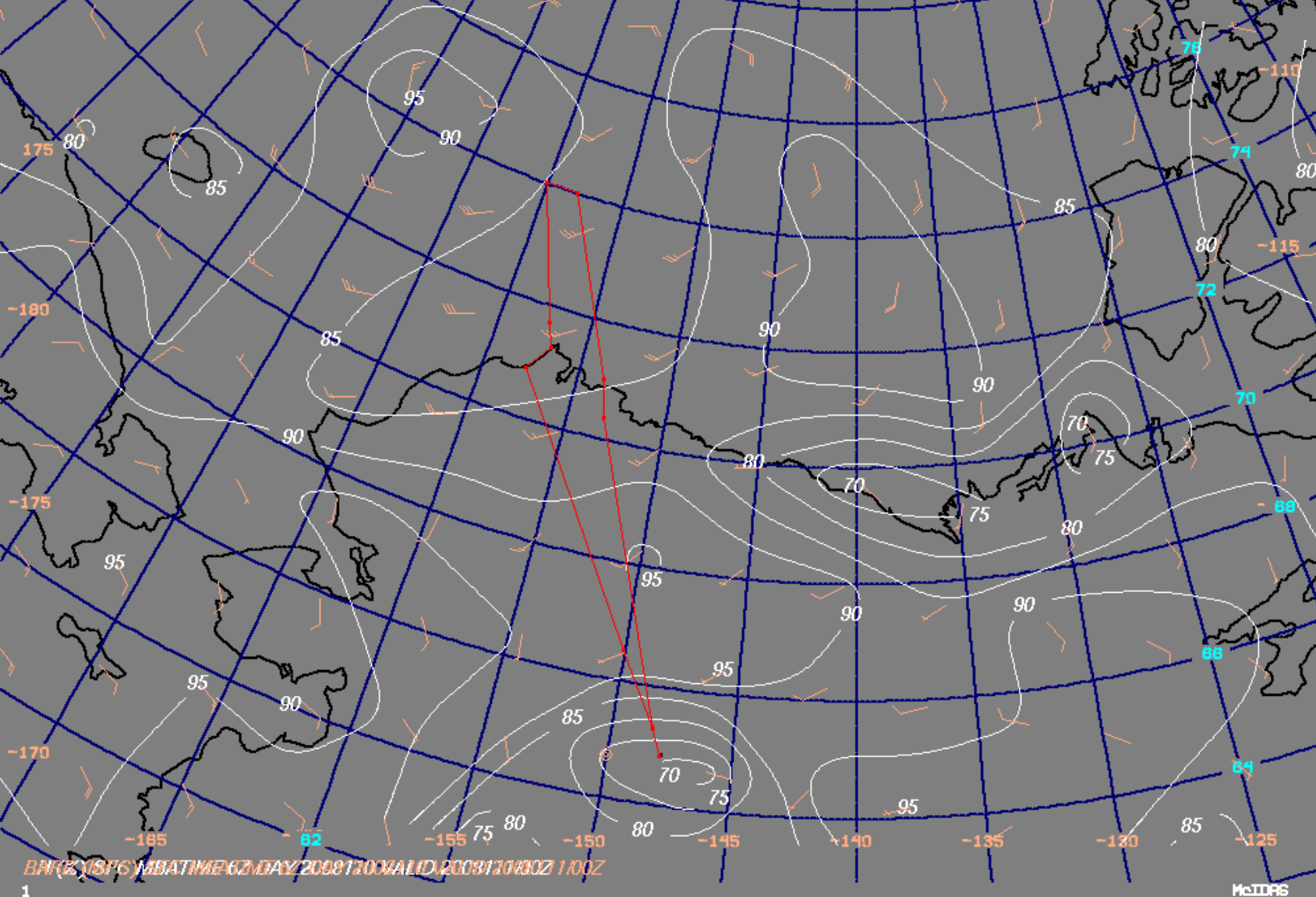
GFS 850 RH and winds, 4:00 PM local, Saturday



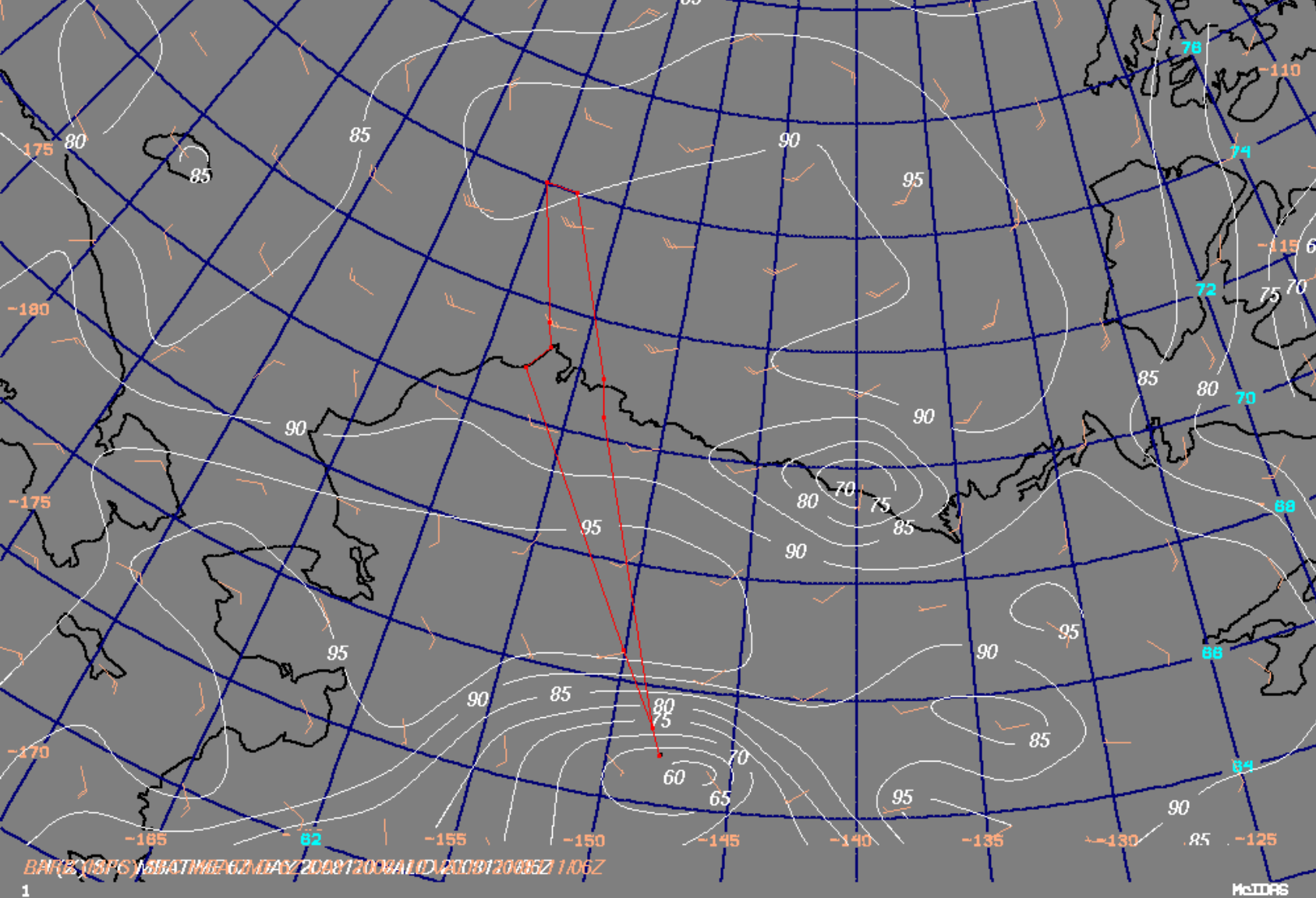
GFS 850 RH and winds, 10:00 PM local, Saturday



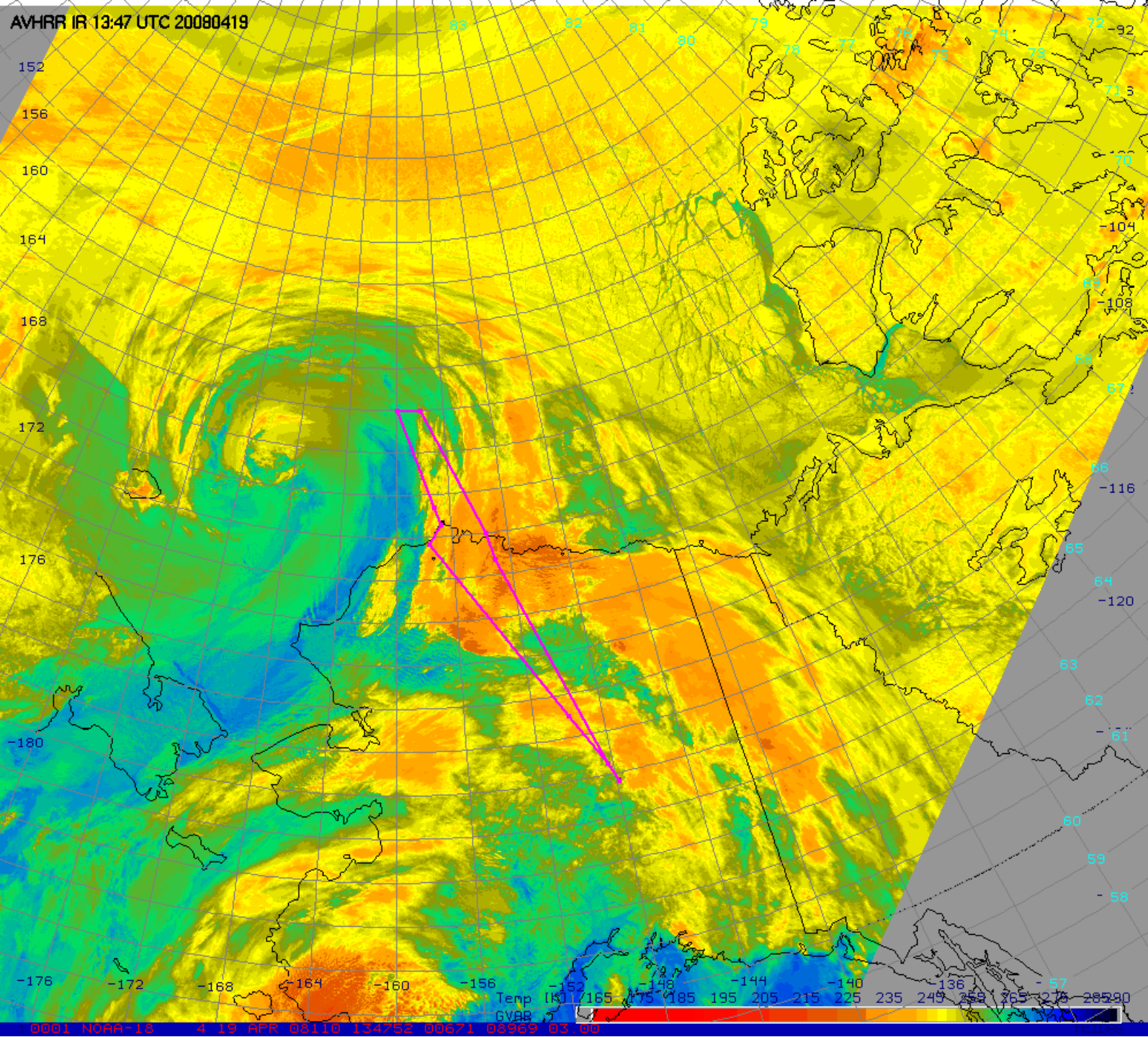
GFS surface RH and winds, 10:00 AM local, Saturday

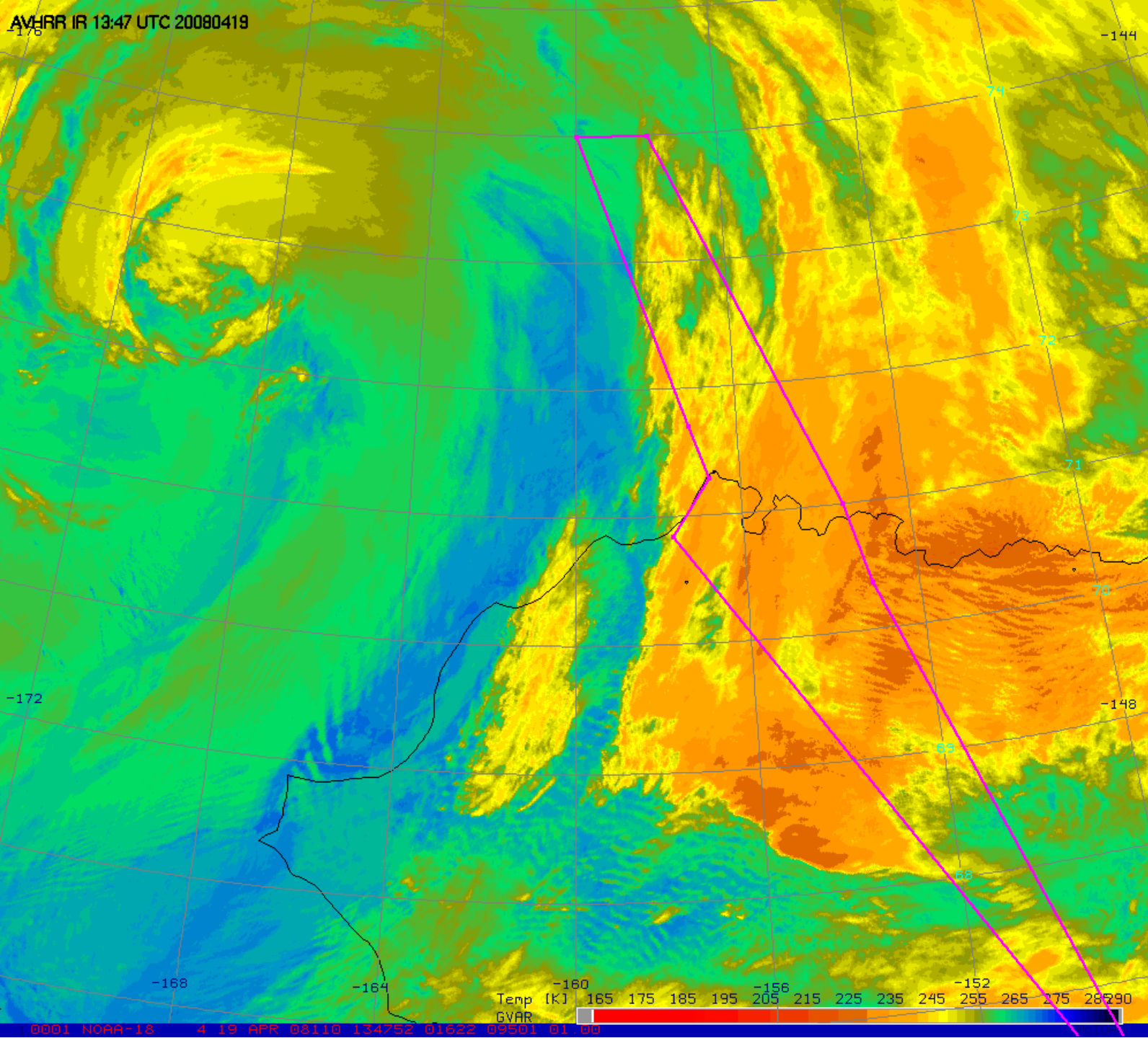


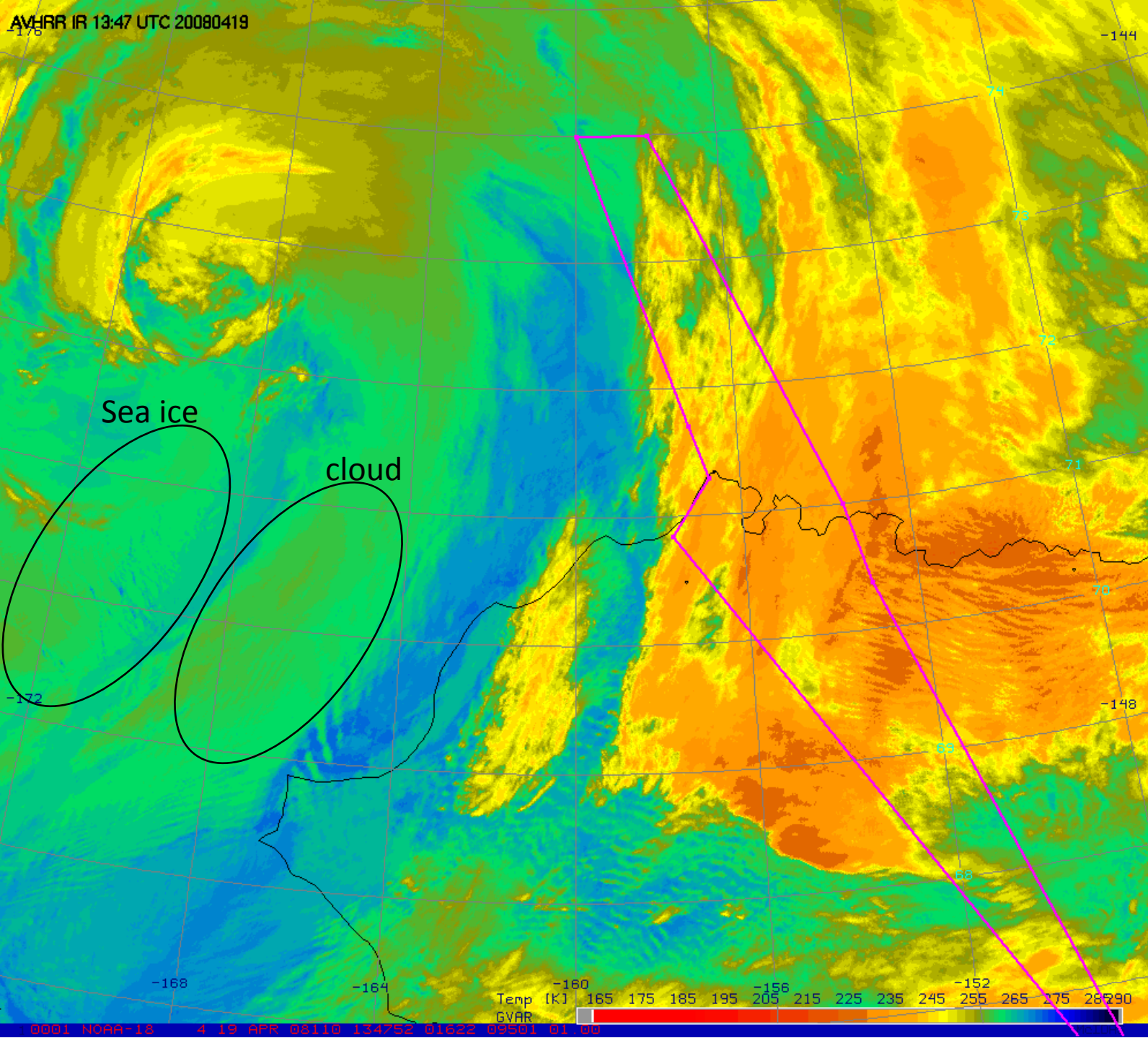
GFS surface RH and winds, 4:00 PM local, Saturday



GFS surface RH and winds, 10:00 PM local, Saturday

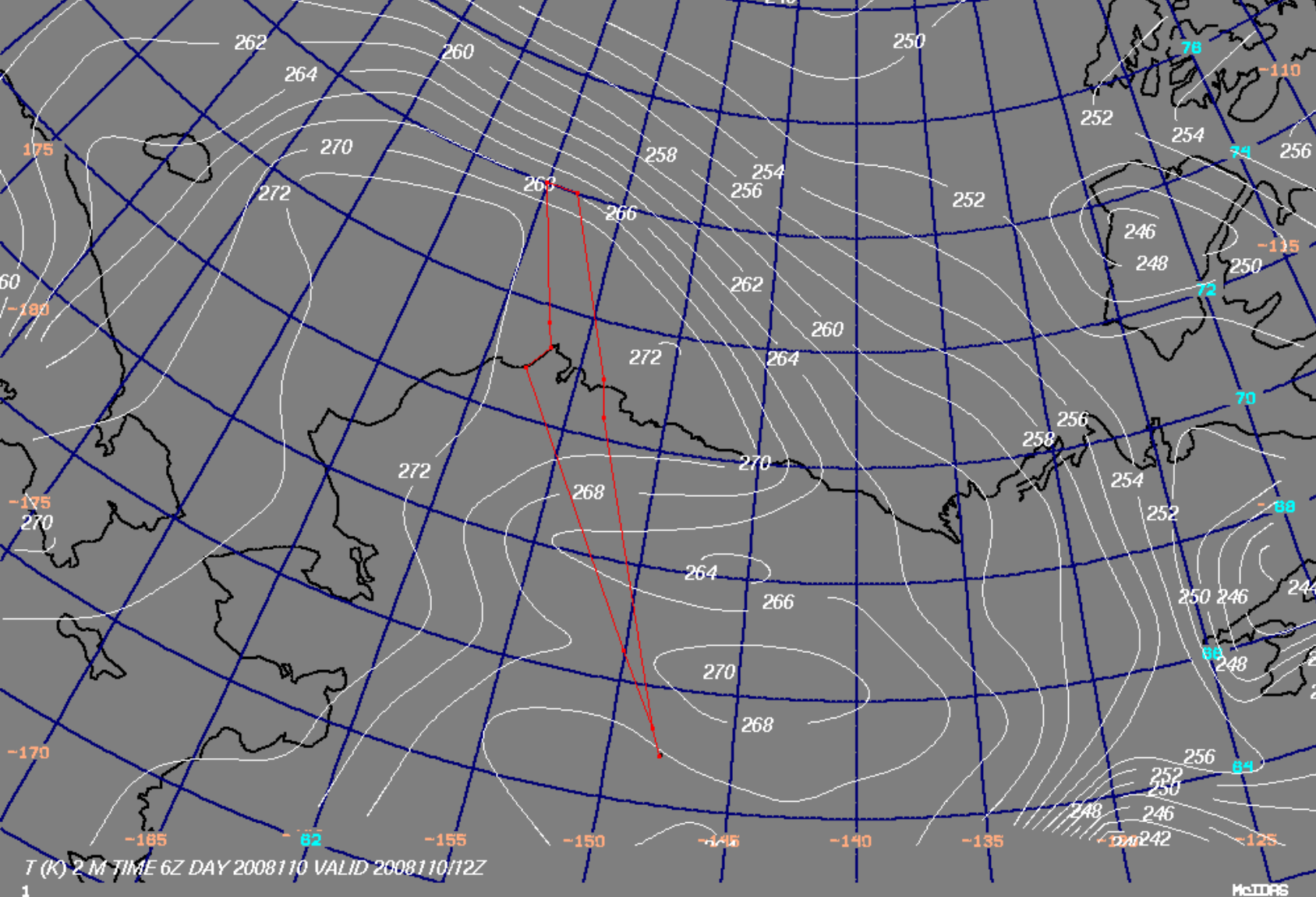




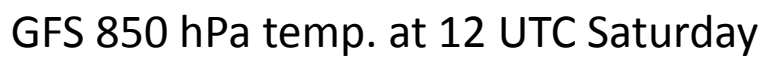


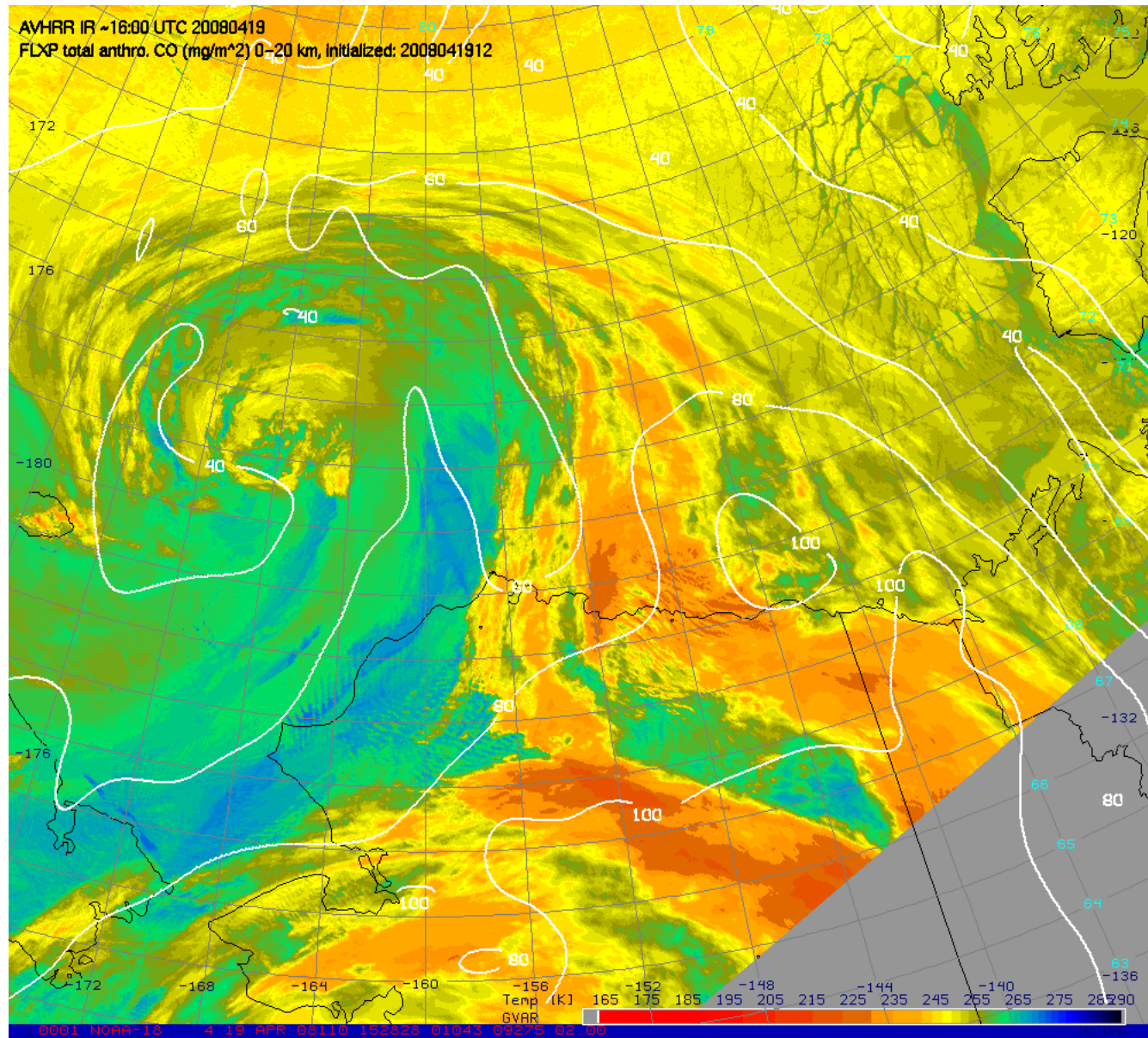
In the oval labeled sea ice you can see the surface that is about 260 Kelvin. Comparing this region to the surface temps in the next slide shows it is behind the cold front

In the oval labeled cloud the cloud top temps are also ~260 K. But this cloud is ahead of the cold front and the temps are similar to the 850 mb temps in the following slide. So I estimate these cloud tops at being around 1500-2000 m.



GFS surface temp. at 12 UTC Saturday





Total anthropo. CO. 04/20 10am to 04/22 4pm

Mixing ratio of species SUM-CO at 2000 m asl for age class 0 - 20.00 DAYS

Latest analysis time 20080419.120000 Actual time 20080420.180000

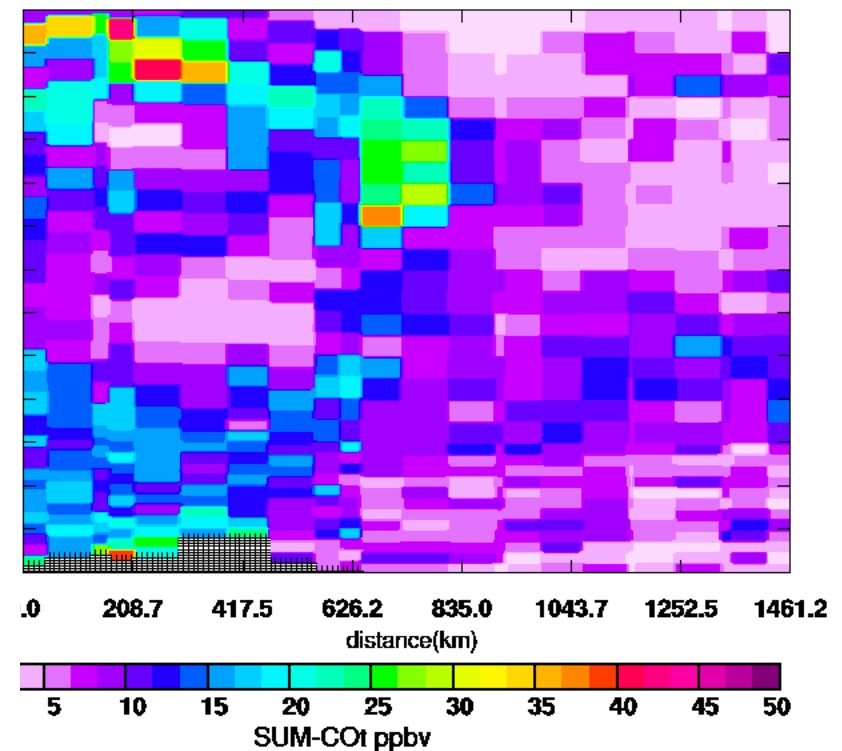
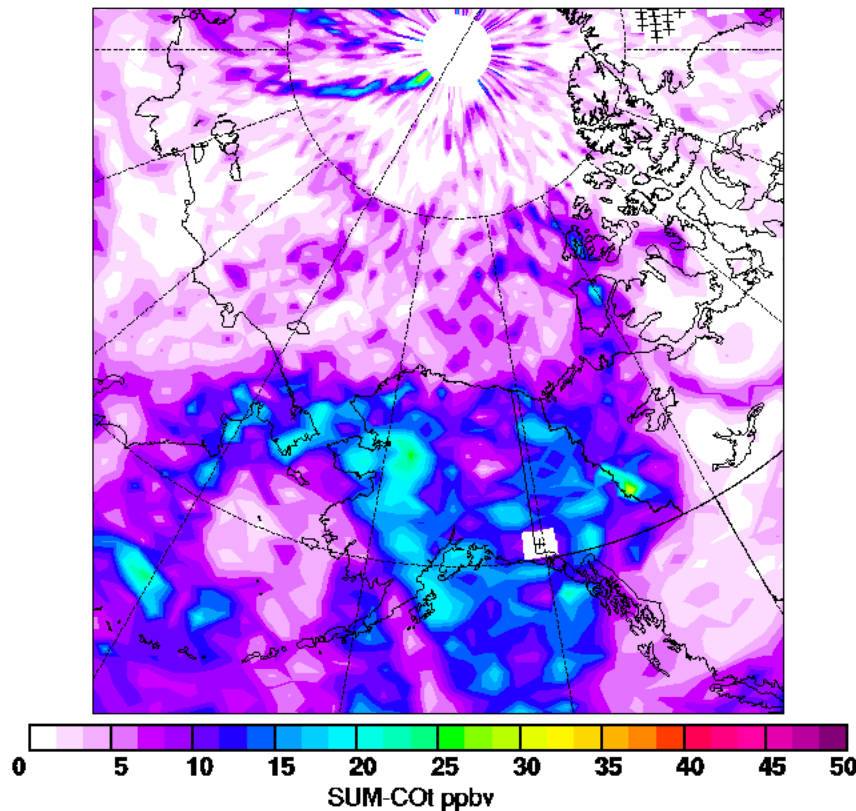
Mean value 0.135E+02 Maximum value 0.100E+31 Minimum value 0.000E+00

Distance of grid lines 20.0 deg

CROSS SECTION FROM 65 TO 77 LATITUDE AND -151 TO -161 LONGITUDE

NA-CO1 MIXING RATIO FOR AGE CLASS 0 - 20.00 DAYS

ATEST ANALYSIS 20080419 120000 UTC ACTUAL TIME 20080420 18



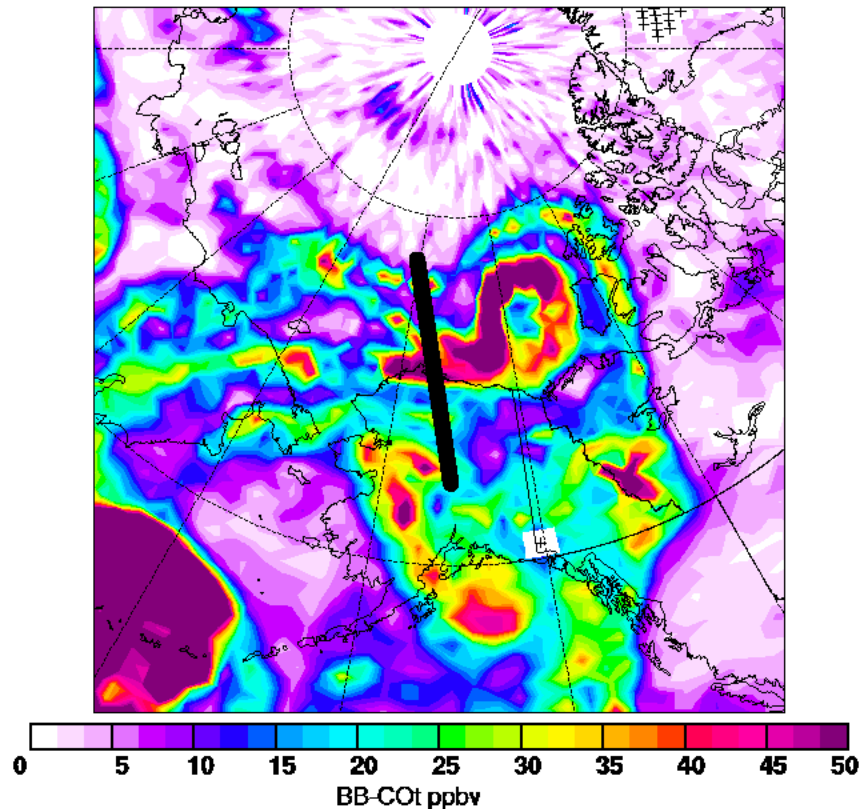
Biomass Burning CO. 04/20 10am to 04/22 4pm

Mixing ratio of species BB-CO_t at 2000 m asl for age class 0 - 20.00 DAYS

Latest analysis time 20080419. 60000 Actual time 20080420.180000

Mean value 0.167E+02 Maximum value 0.100E+31 Minimum value 0.000E+00

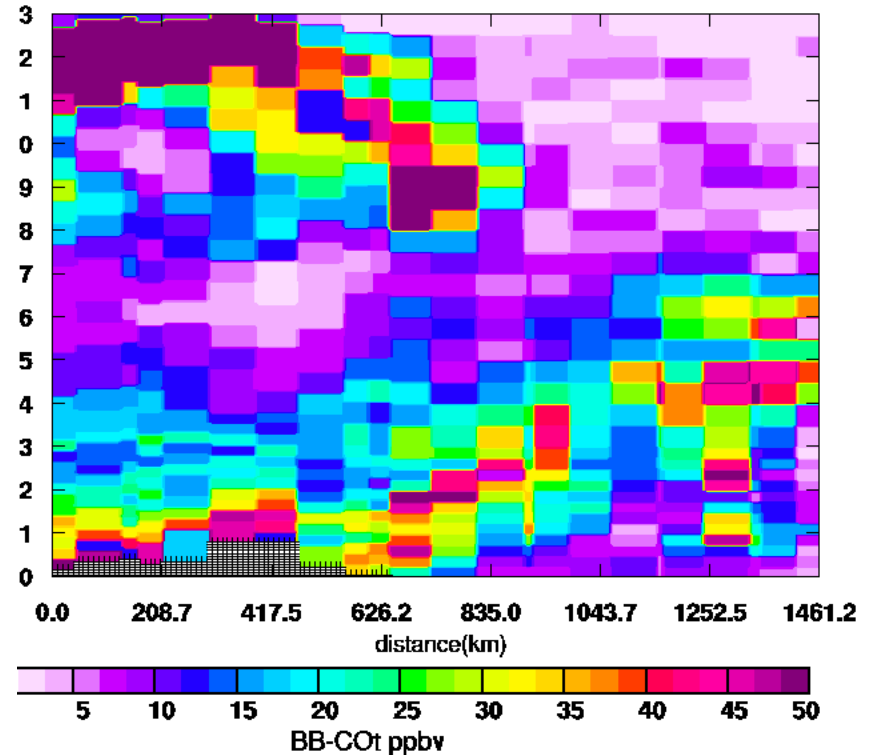
Distance of grid lines 20.0 deg



CROSS SECTION FROM 65 TO 77 LATITUDE AND -151 TO -161 LONGITUDE

BB-CO_t MIXING RATIO FOR AGE CLASS 0 - 20.00 DAYS

LATEST ANALYSIS 20080419 60000 UTC ACTUAL TIME 20080420 18

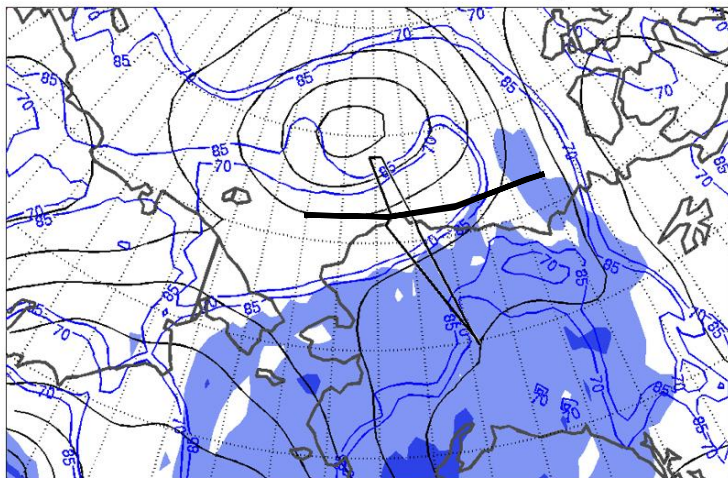


anthro SO4

Today, Saturday

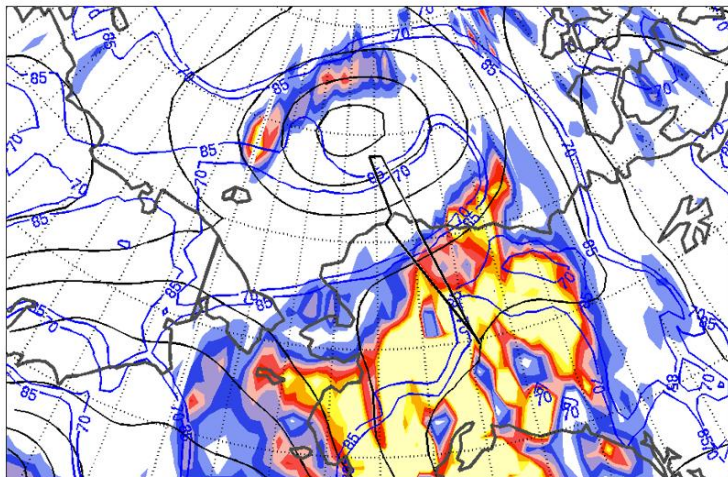
biomass CO

AN-CO on 00 UTC 2008-04-20 at level 1000-2000 (4)

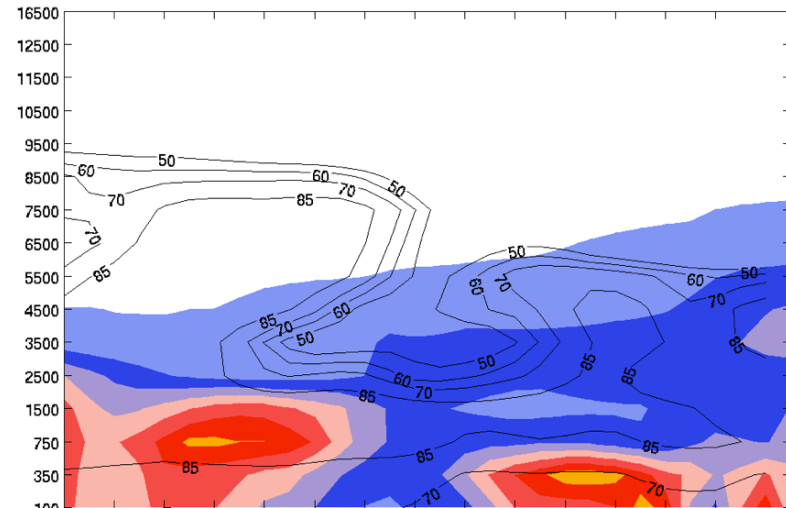


anthro SO4

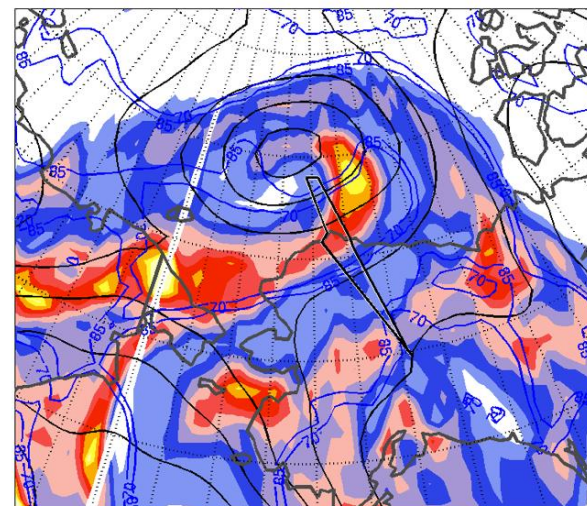
AN-SO4 on 00 UTC 2008-04-20 at level 0-200 (1)



BB-CO on 00 UTC 2008-04-20 at lat 70.50



BB-CO on 00 UTC 2008-04-20 at level 500-1000 (3)

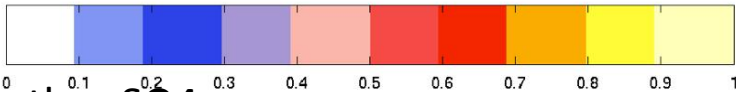
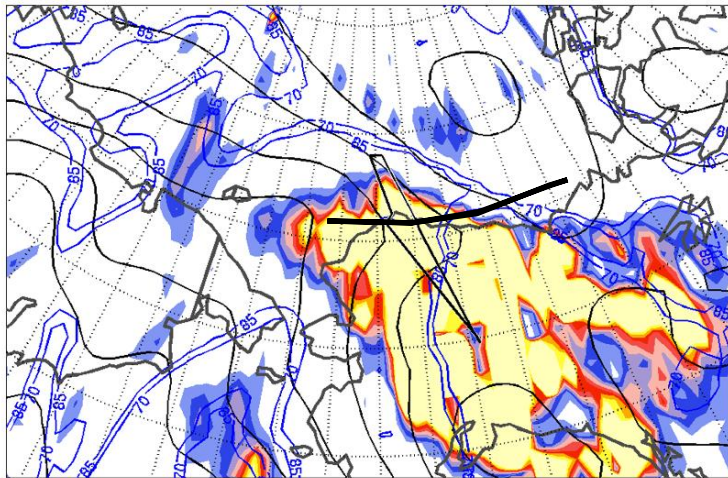


anthro SO4

Monday

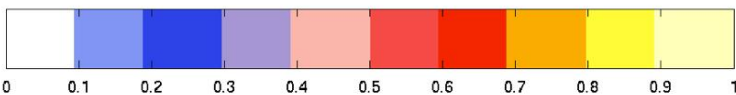
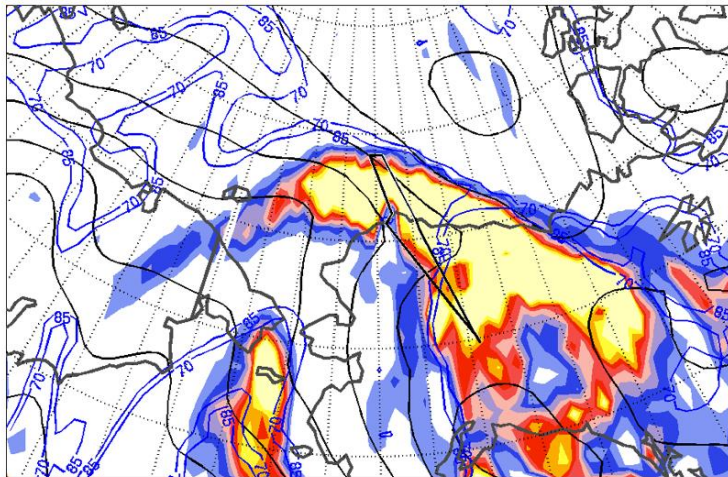
biomass CO

AN-SO4 on 18 UTC 2008-04-21 at level 0-200 (1)

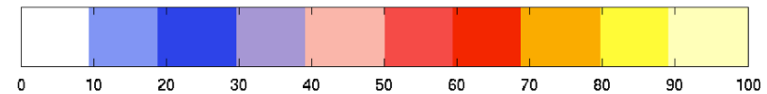
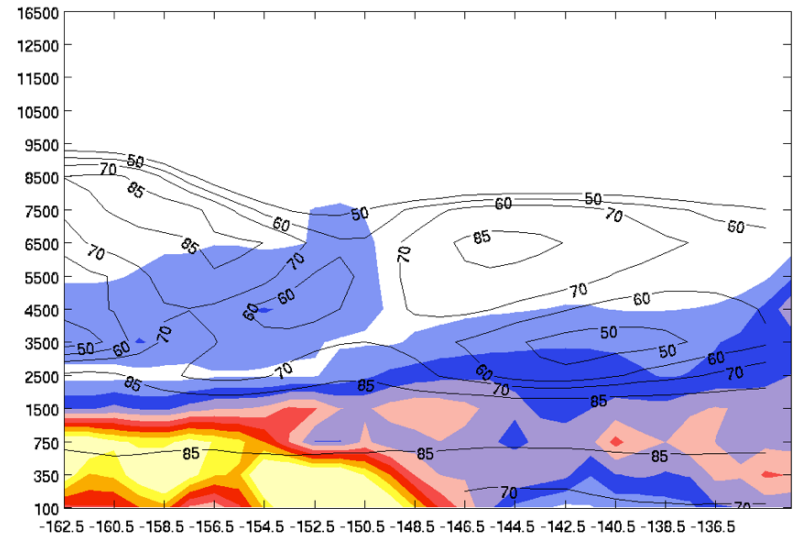


anthro SO4

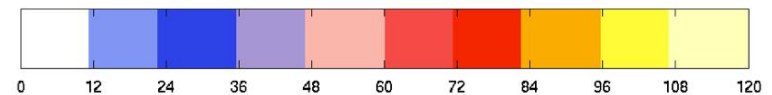
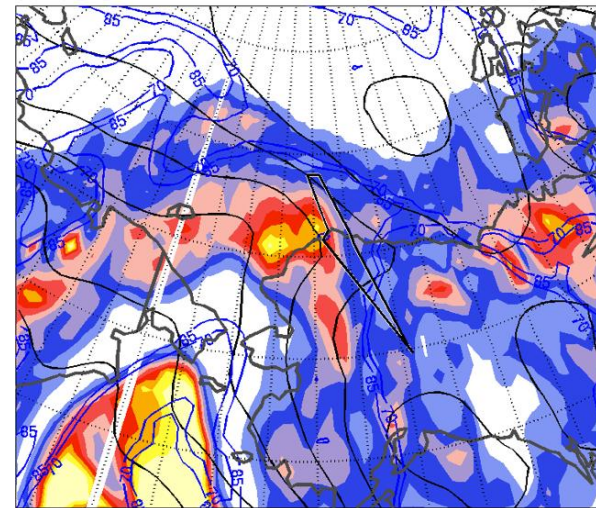
AN-SO4 on 18 UTC 2008-04-21 at level 1000-2000 (4)



BB-CO on 18 UTC 2008-04-21 at lat 70.50



BB-CO on 18 UTC 2008-04-21 at level 500-1000 (3)

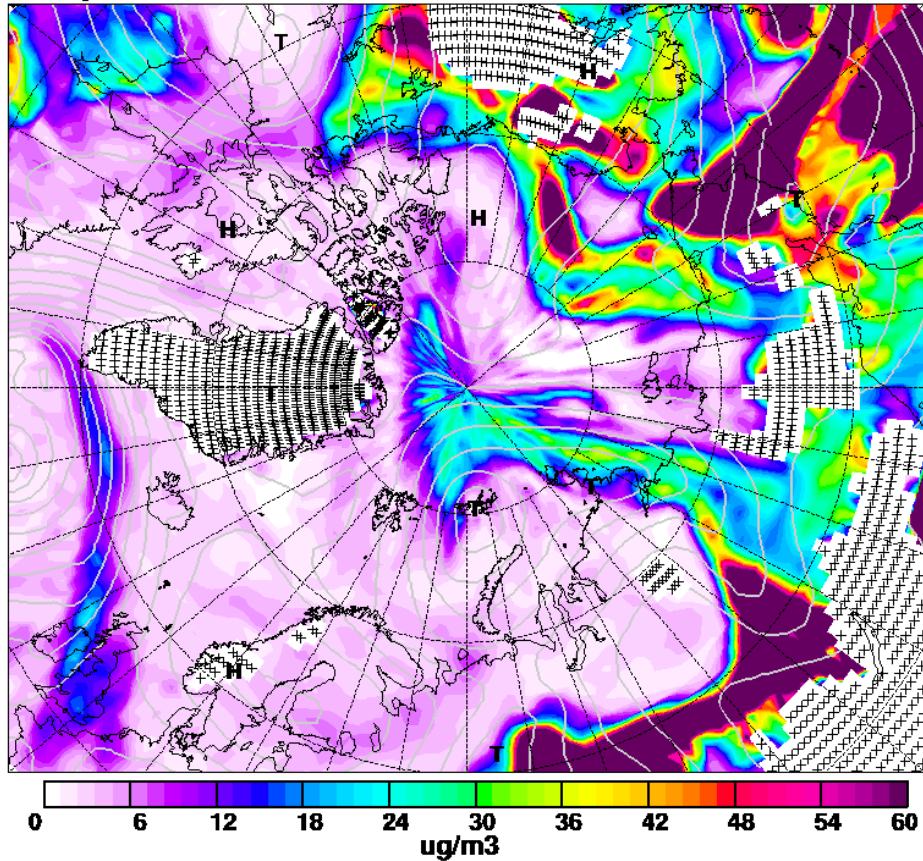


biomass CO,
low levels

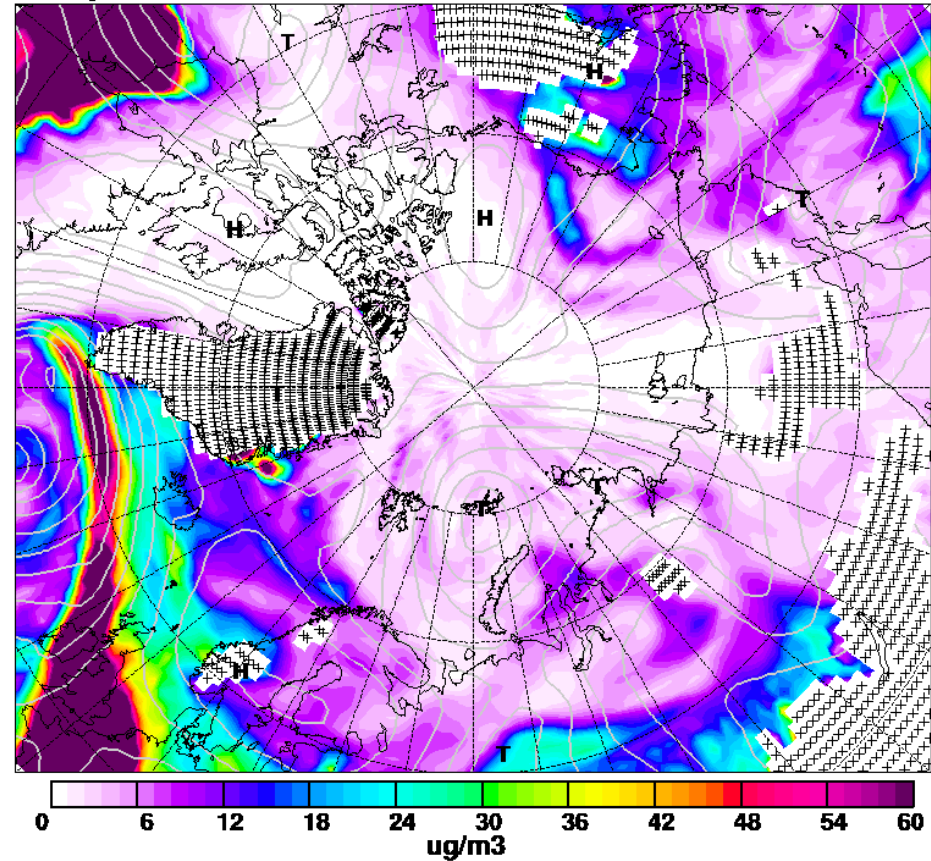
Tuesday

anthro CO,
low levels

Mixing ratio of BB-CO at 750 m asl and 925 hPa geopotential
Analysis @ 20080419. 60000 Actual @ 20080422.180000

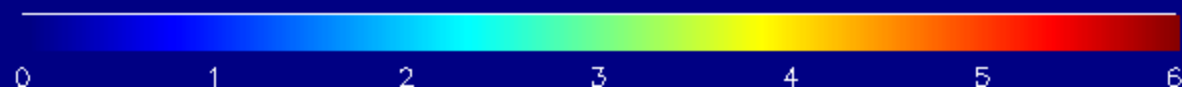
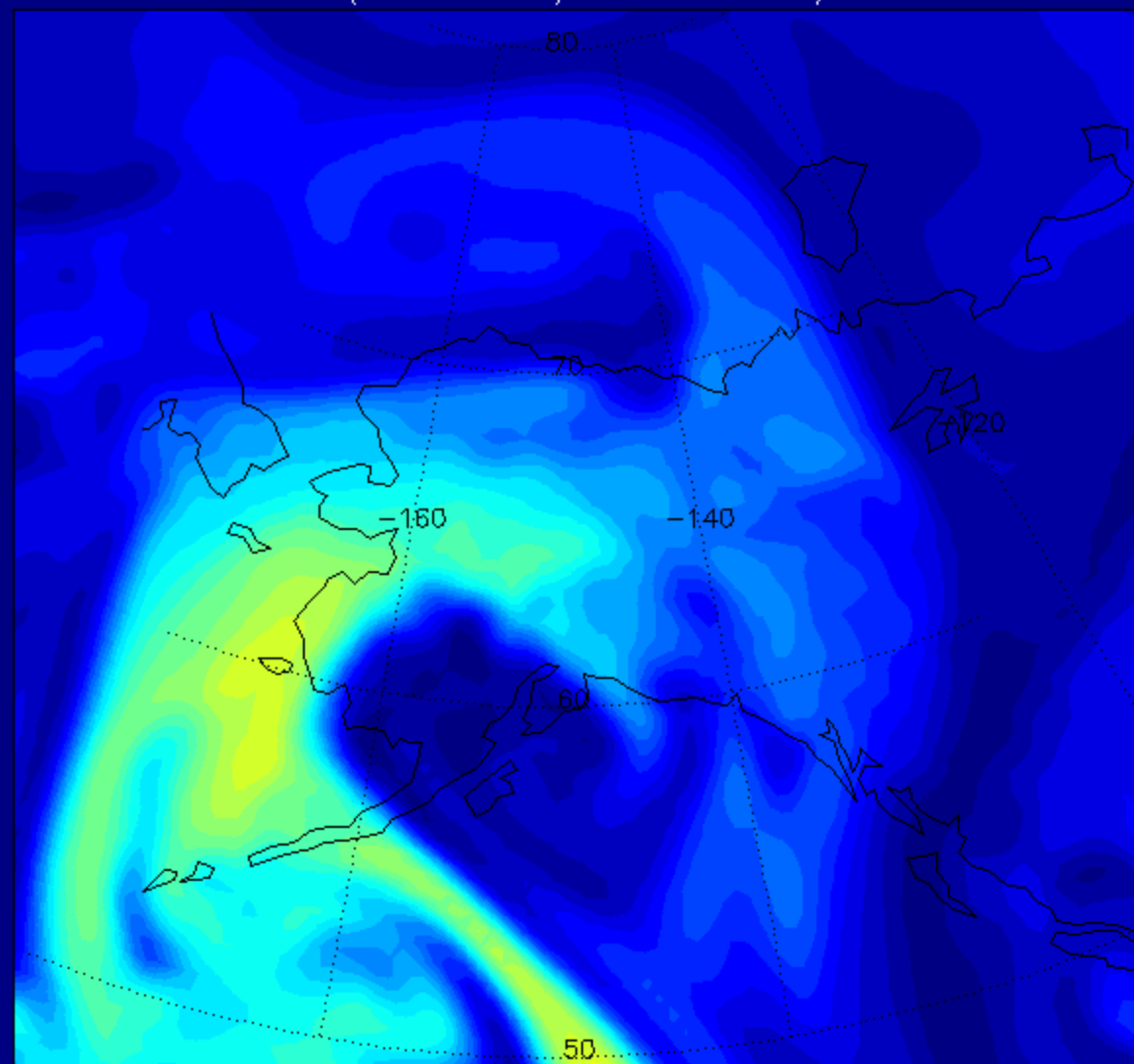


Mixing ratio of AN-CO at 750 m asl and 925 hPa geopotential
Analysis @ 20080419. 60000 Actual @ 20080422.180000

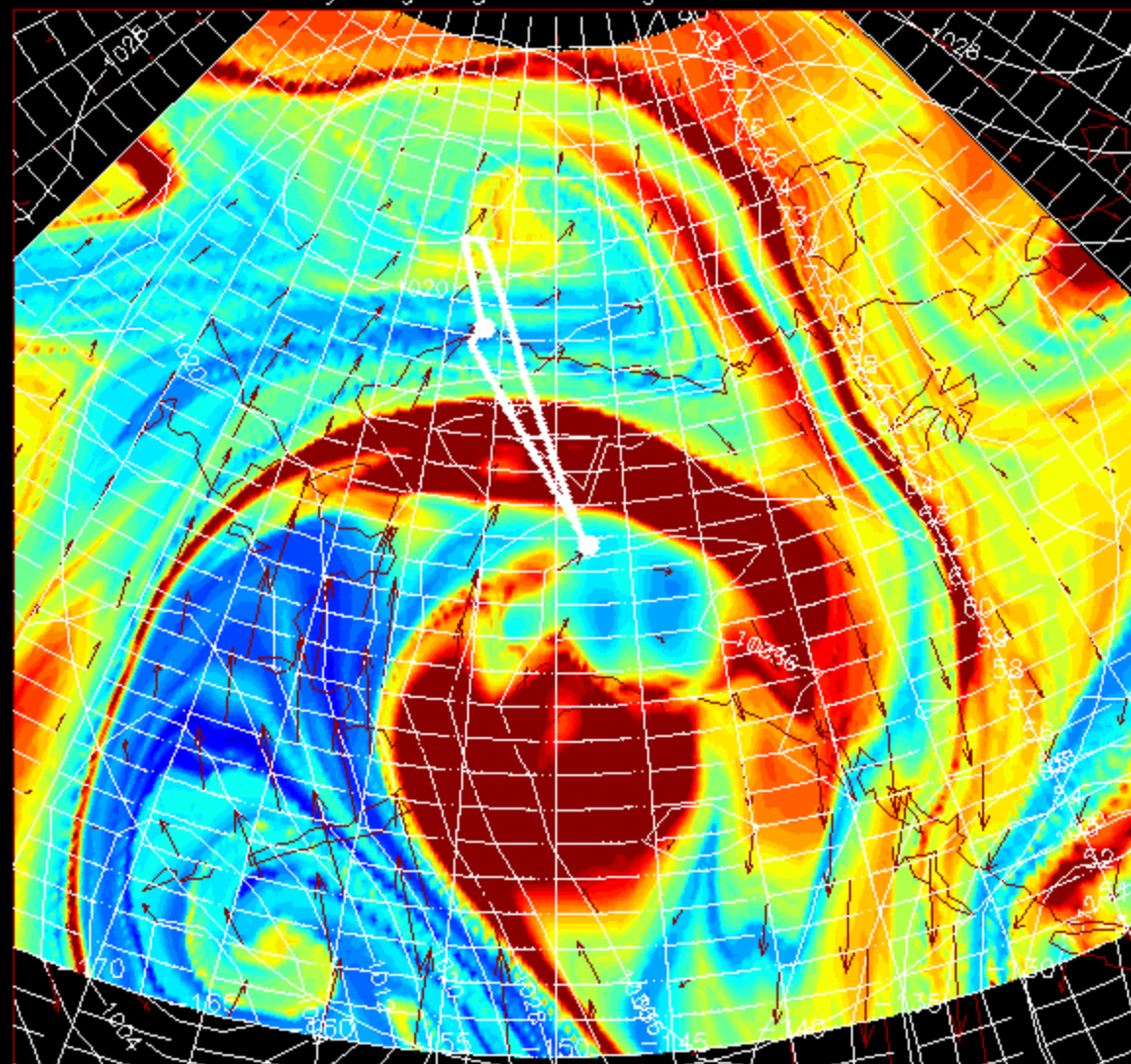


GFS 3km Q 00Z 20080420

(Pressure Contoured/SFC Intersection Dashed)

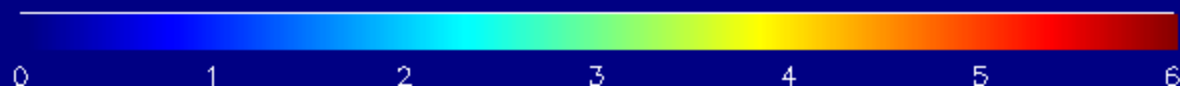
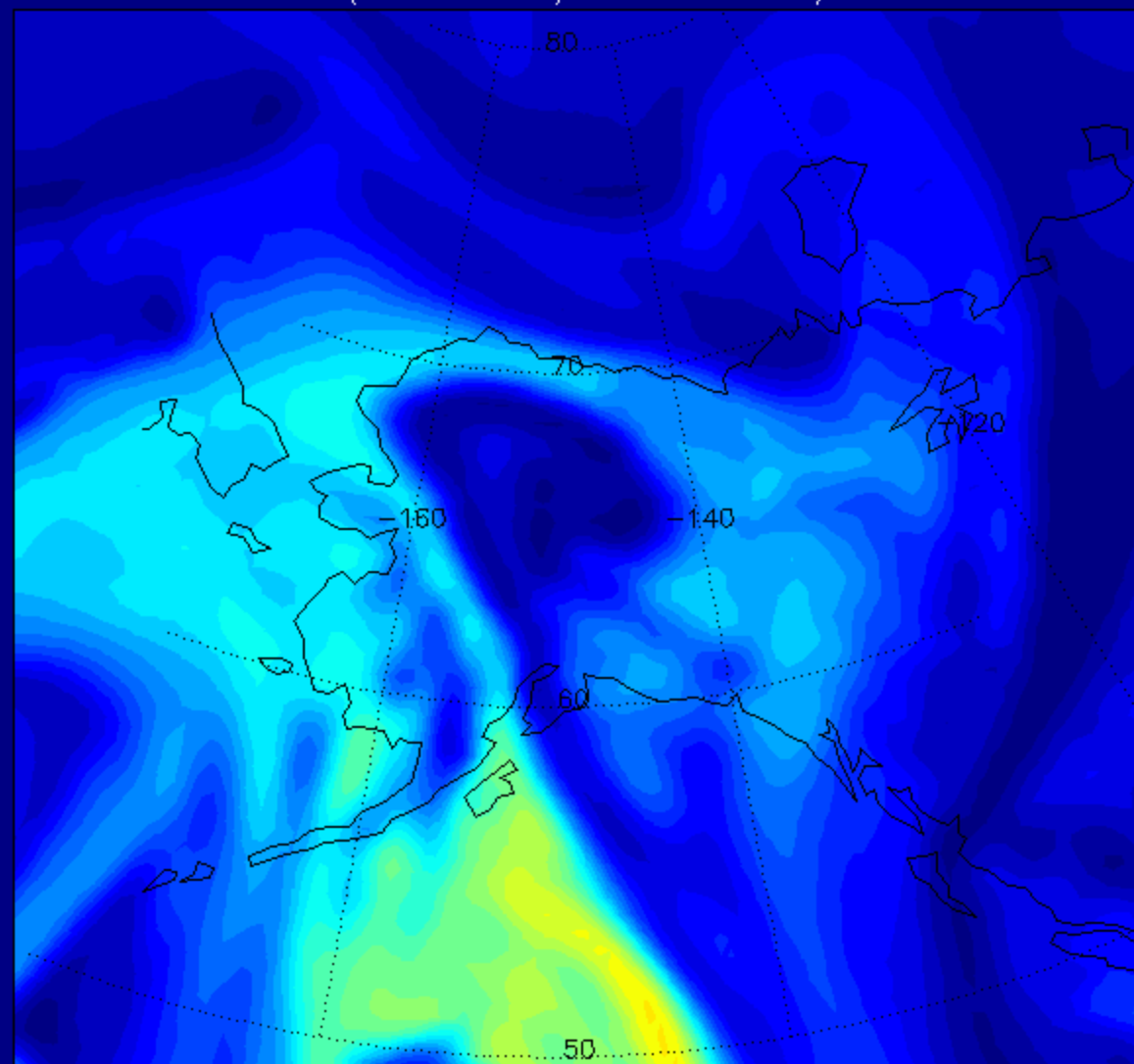


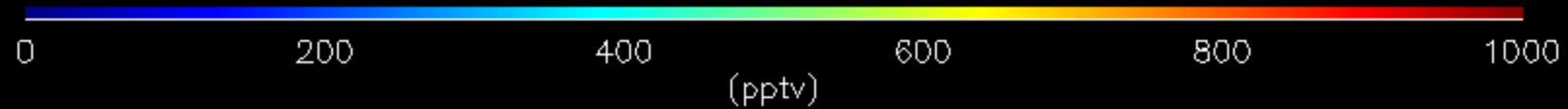
3km 5-day Lagrangian Averaged S04 2008042000



GFS 3km Q 00Z 20080421

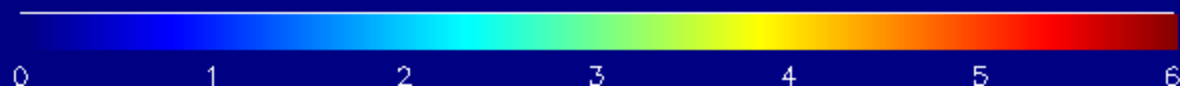
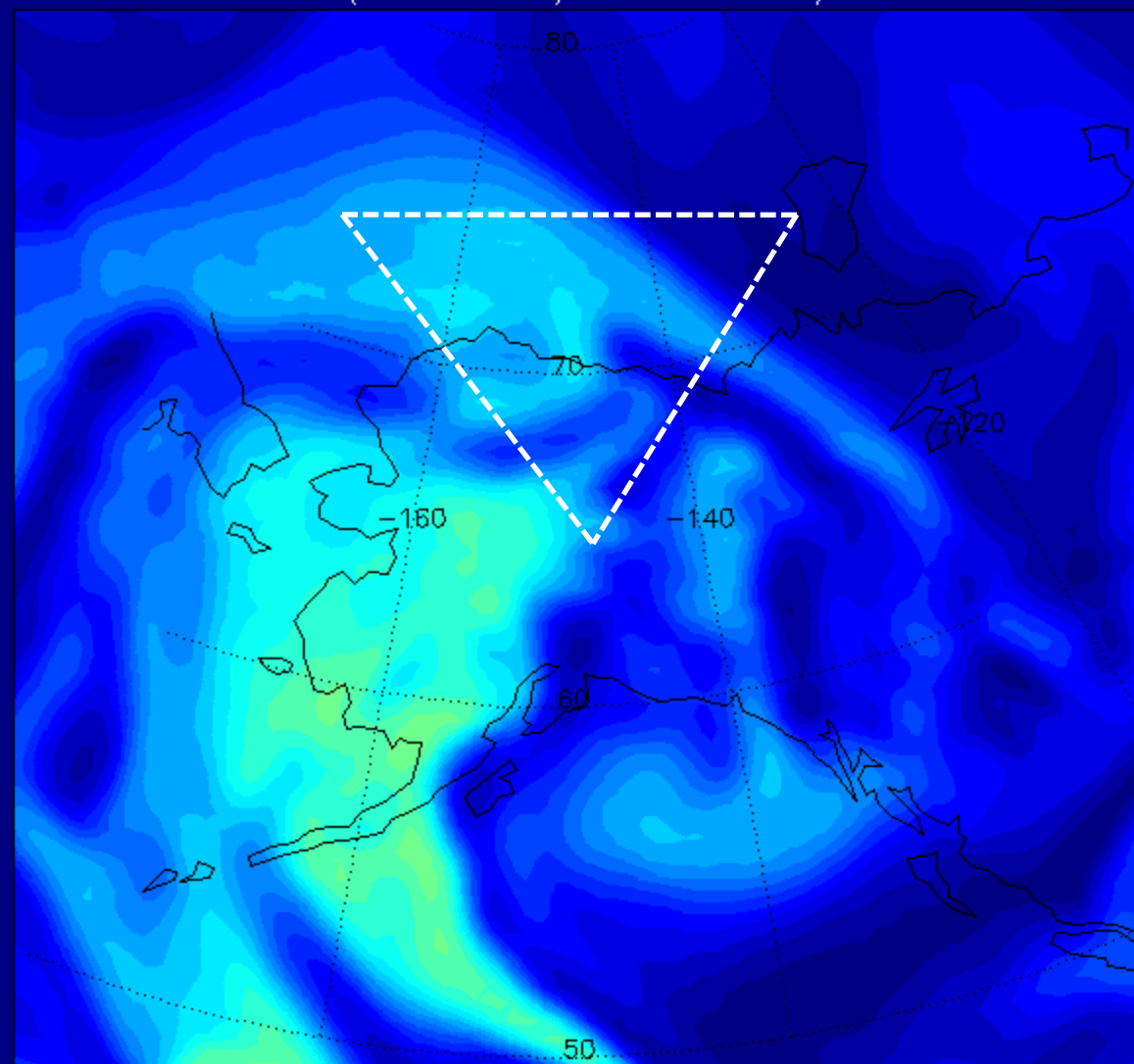
(Pressure Contoured/SFC Intersection Dashed)



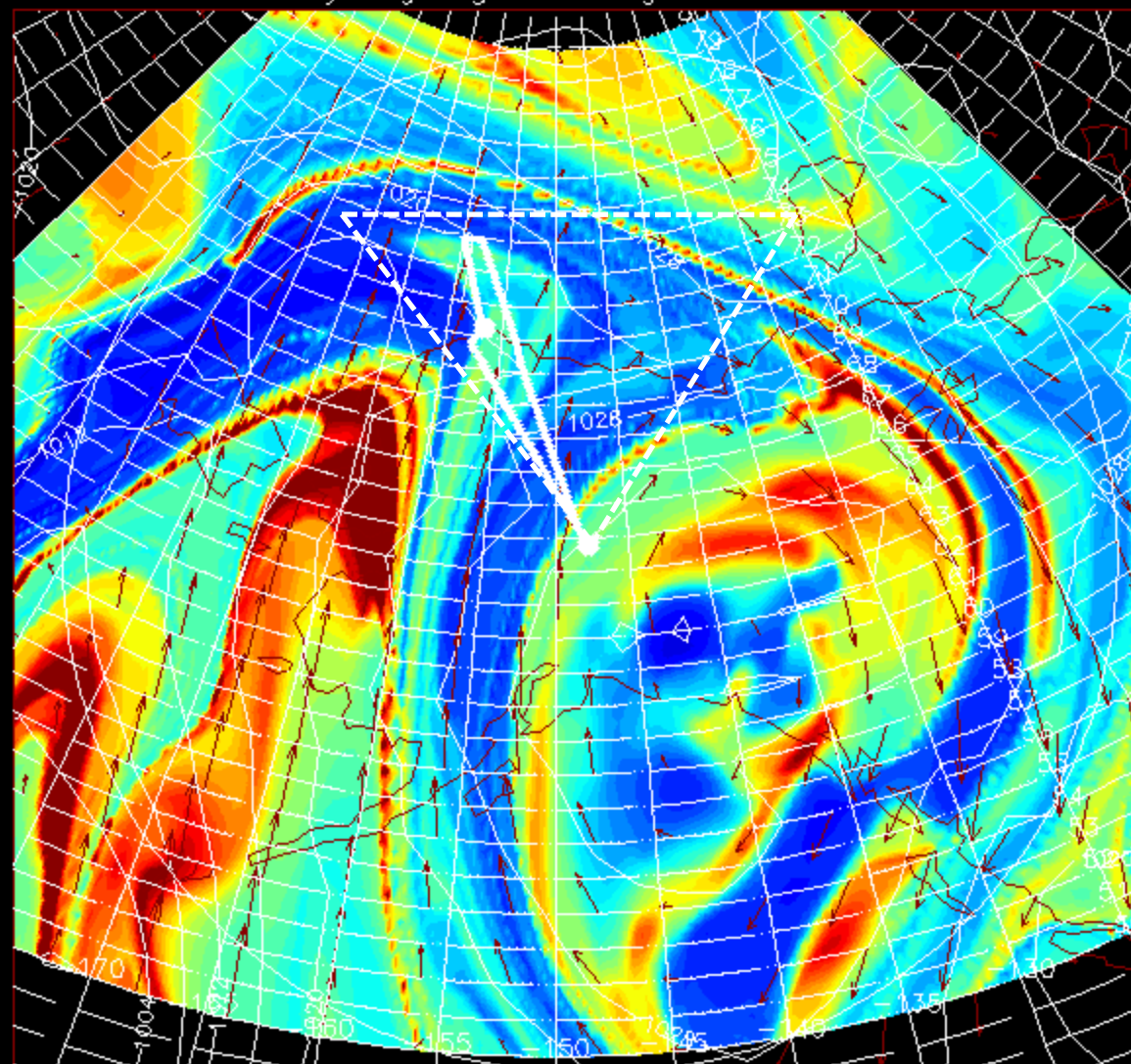


GFS 3km Q 00Z 20080422

(Pressure Contoured/SFC Intersection Dashed)

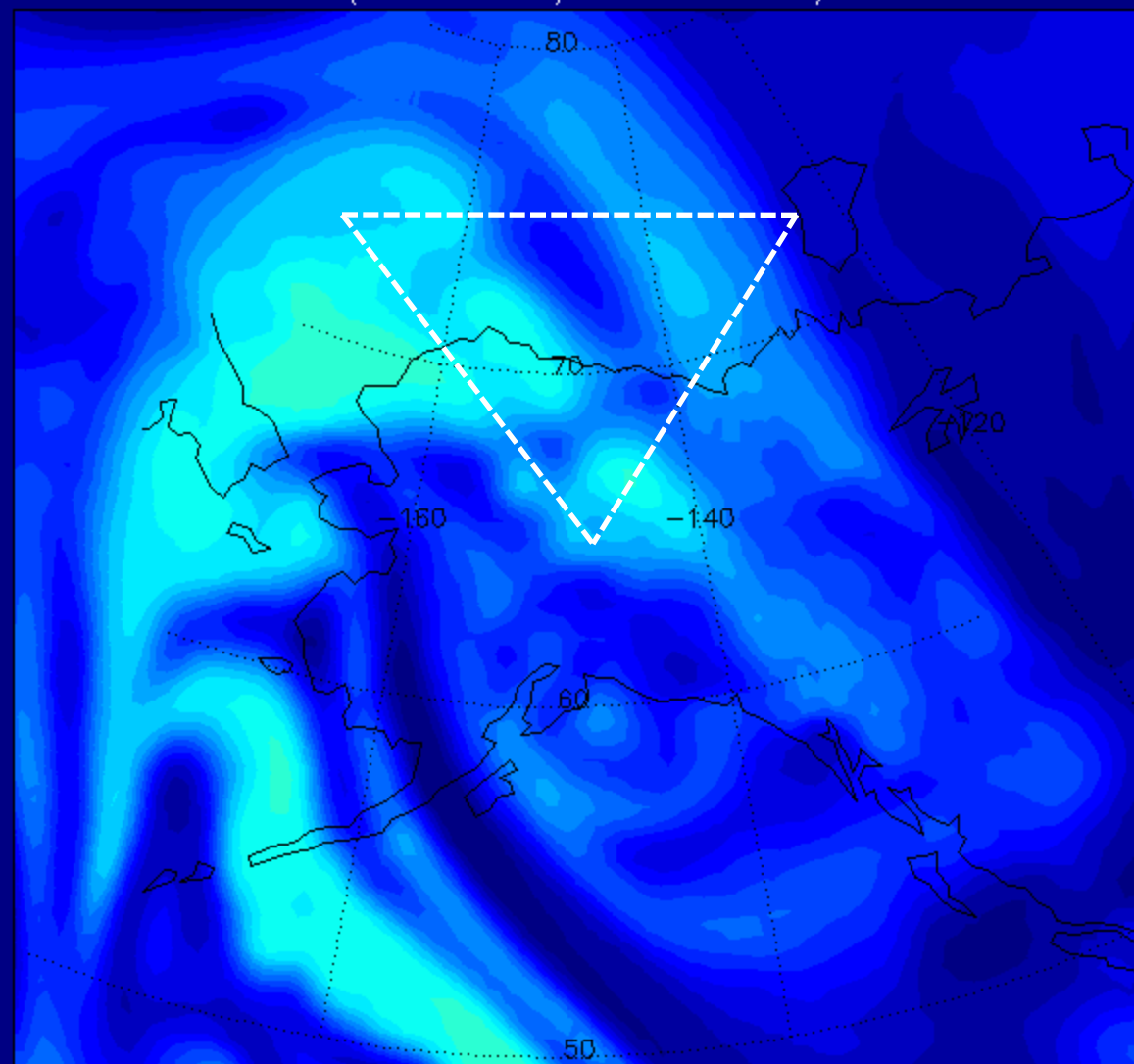


3km 5-day Lagrangian Averaged S04 2008042200

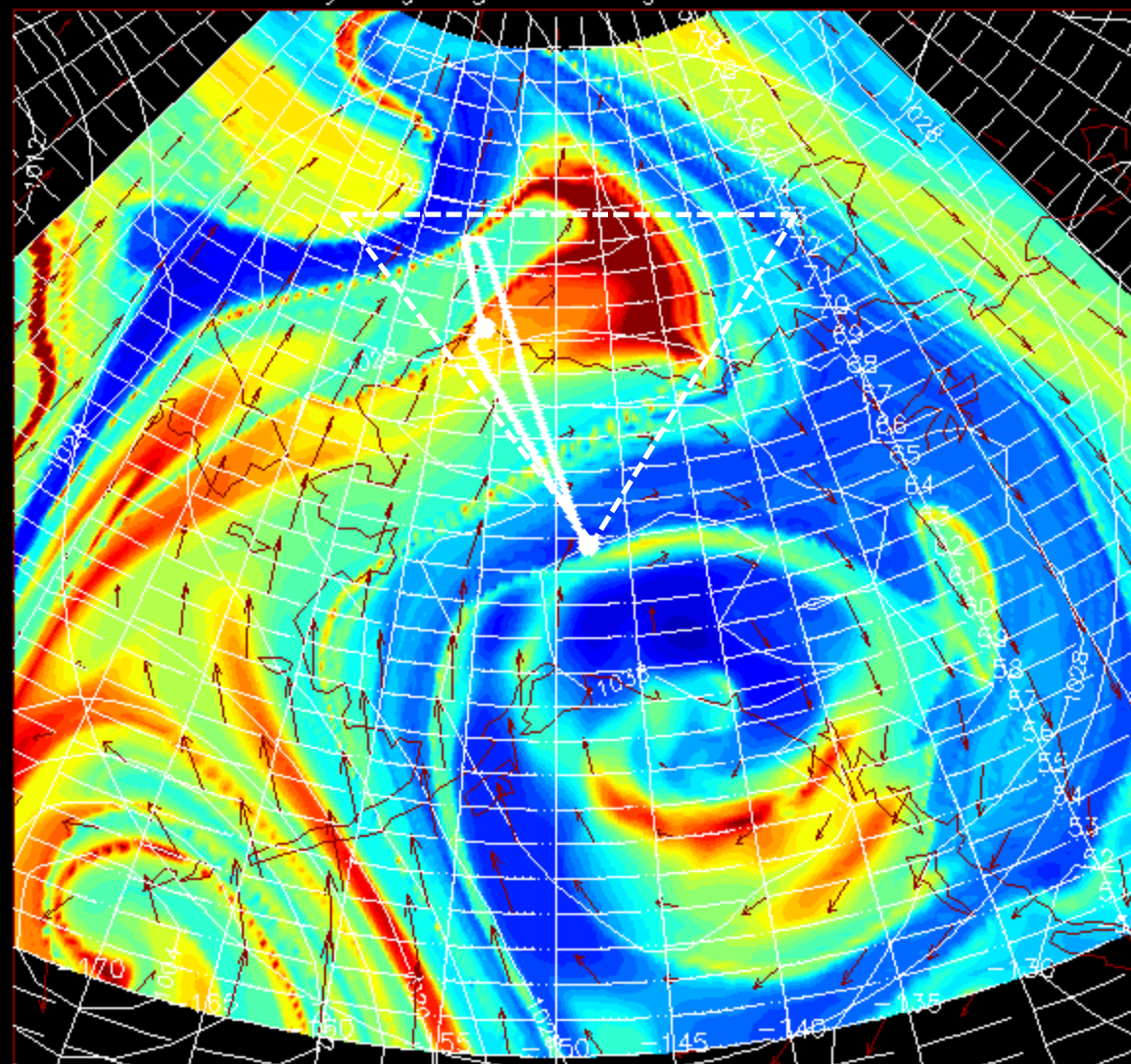


GFS 3km Q 00Z 20080423

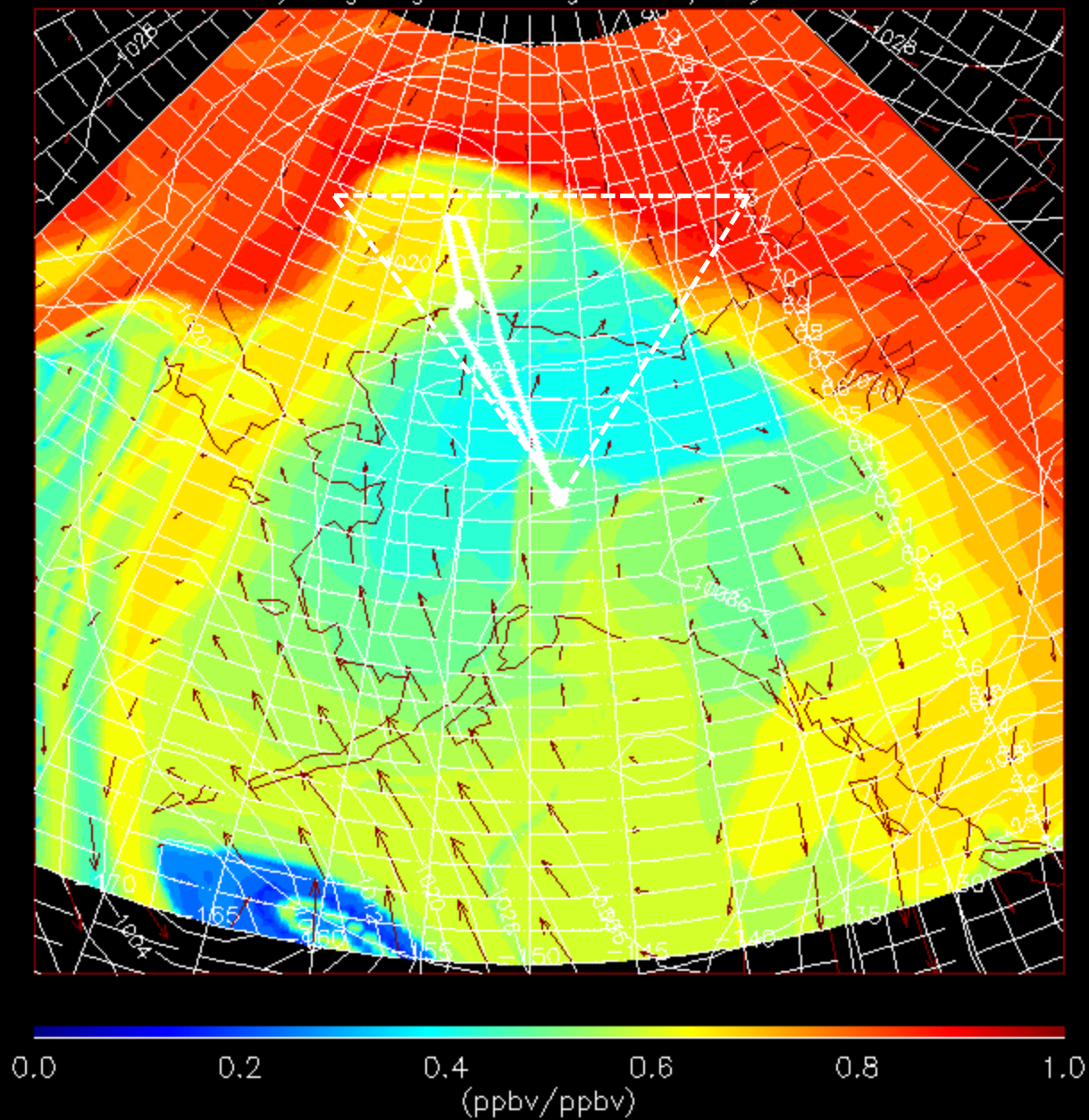
(Pressure Contoured/SFC Intersection Dashed)



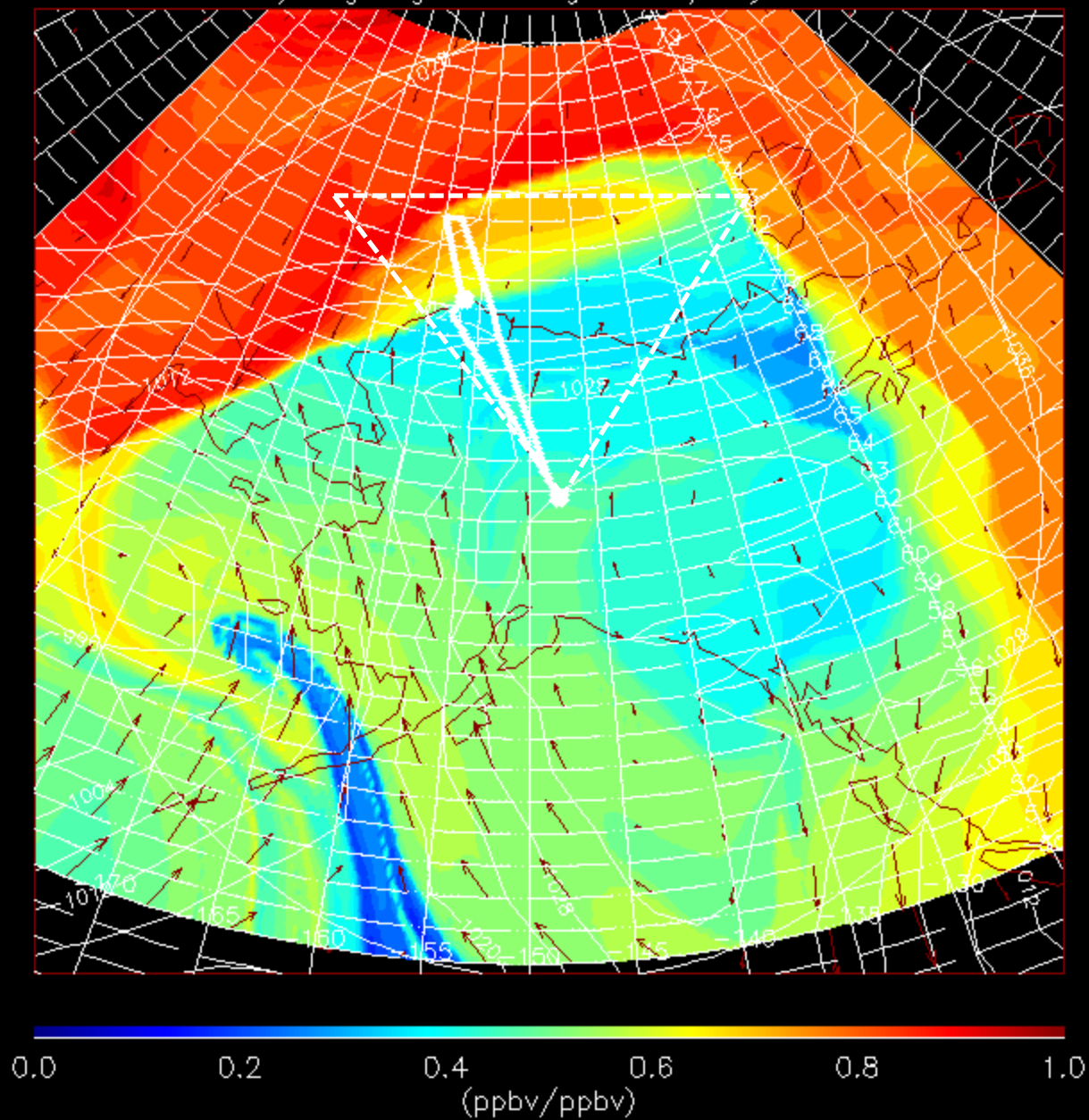
3km 5-day Lagrangian Averaged S04 2008042300



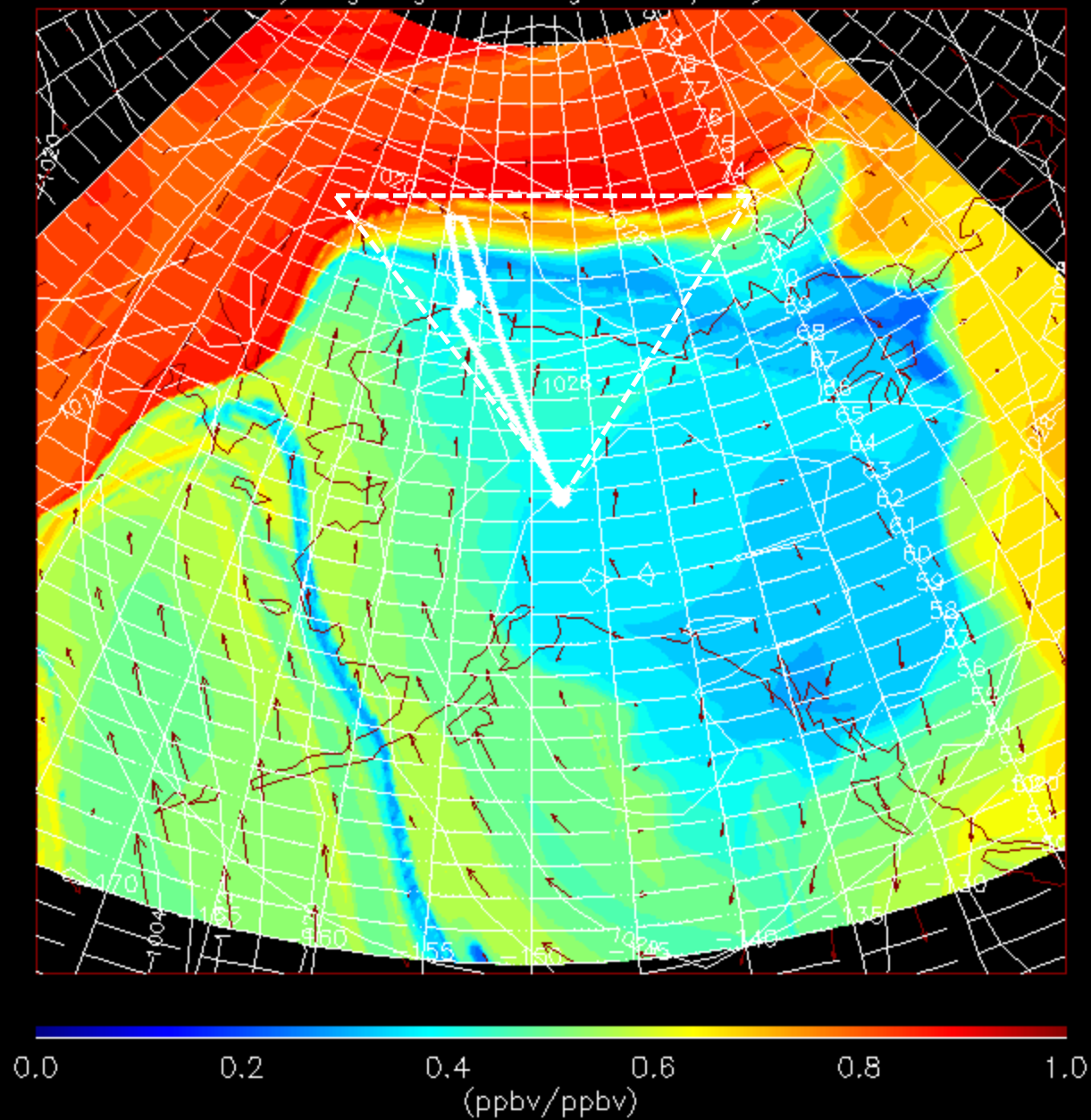
SFC 5-day Lagrangian Averaged PAN/NO_y 2008042000



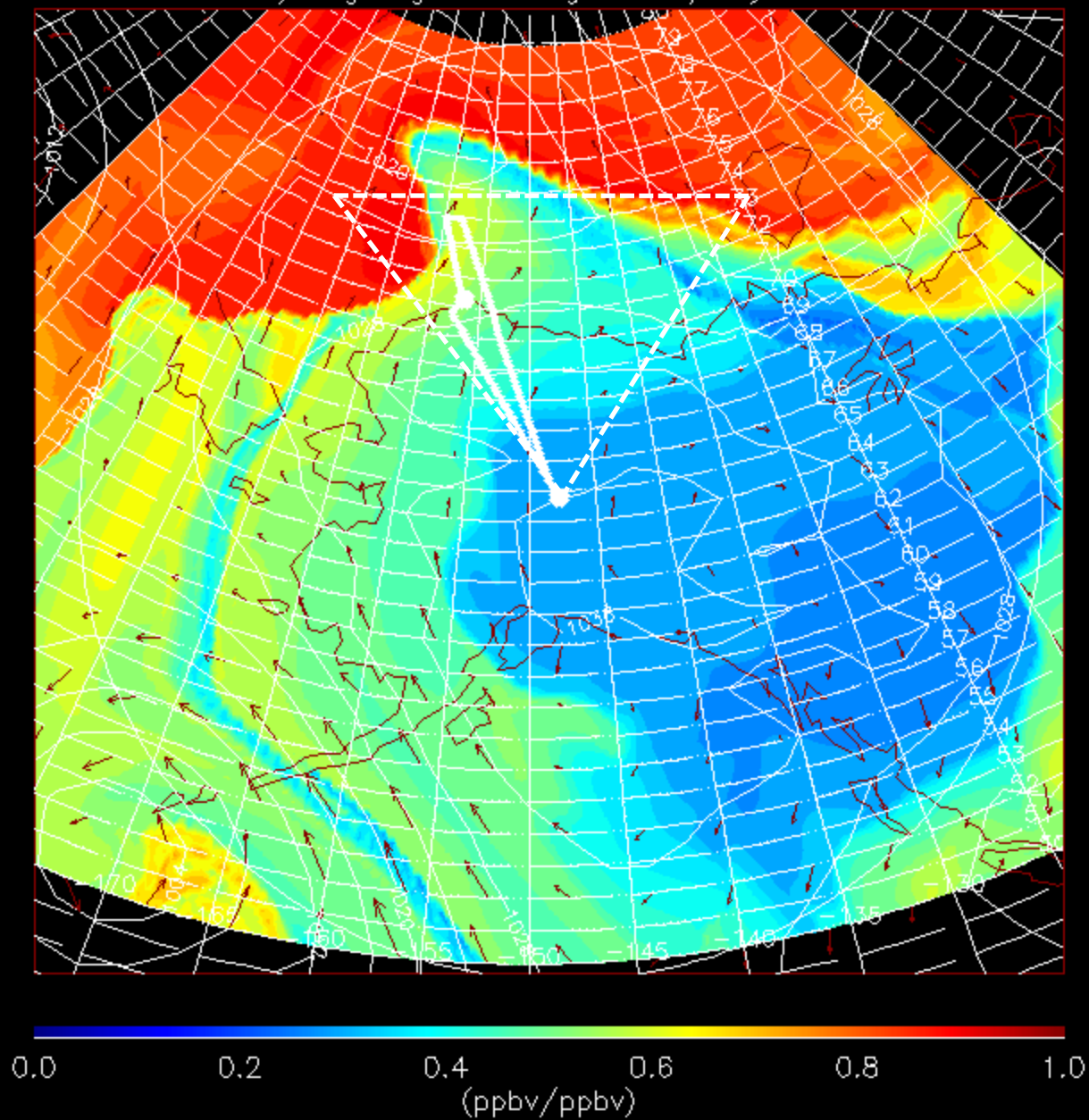
SFC 5-day Lagrangian Averaged PAN/NO_y 2008042100

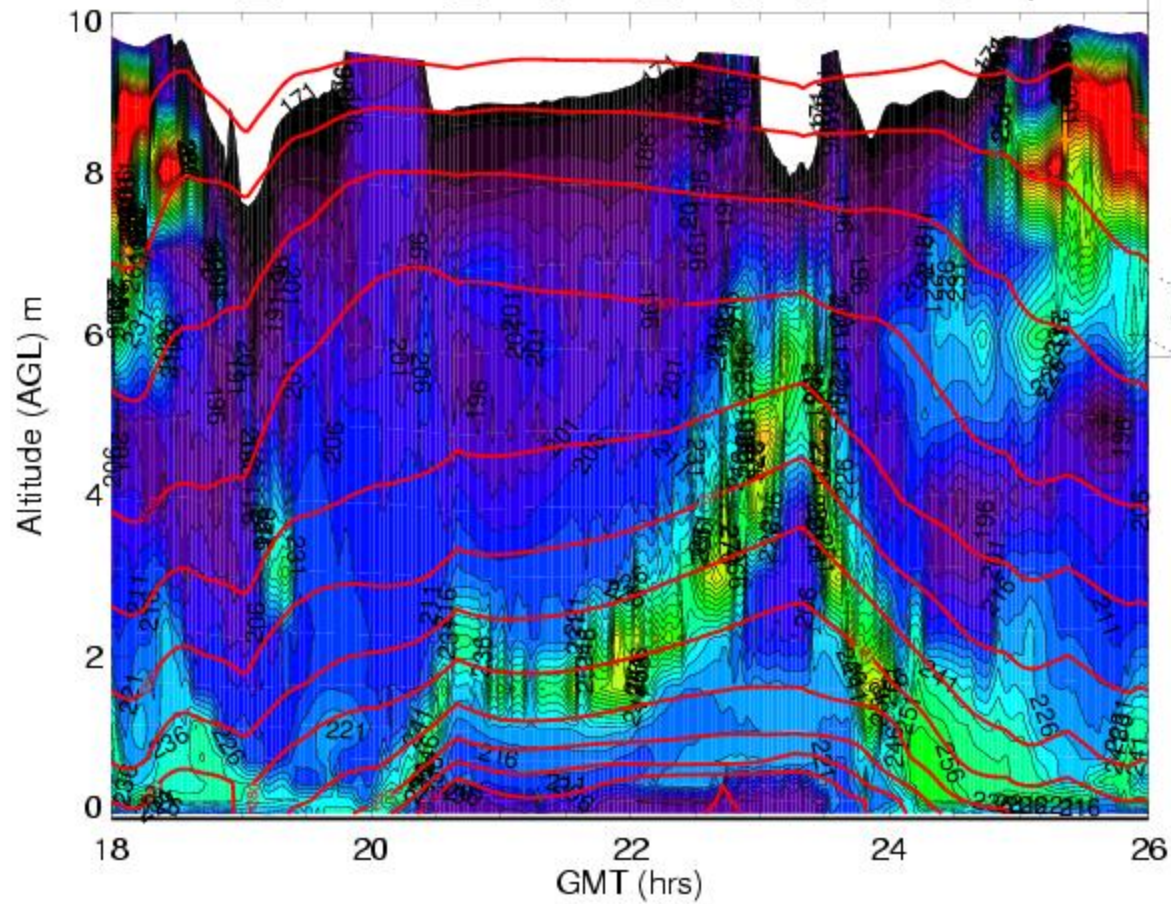


SFC 5-day Lagrangian Averaged PAN/NO_y 2008042200

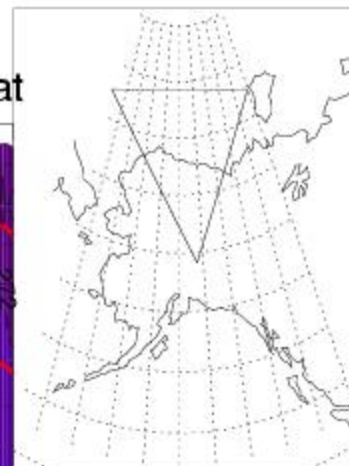
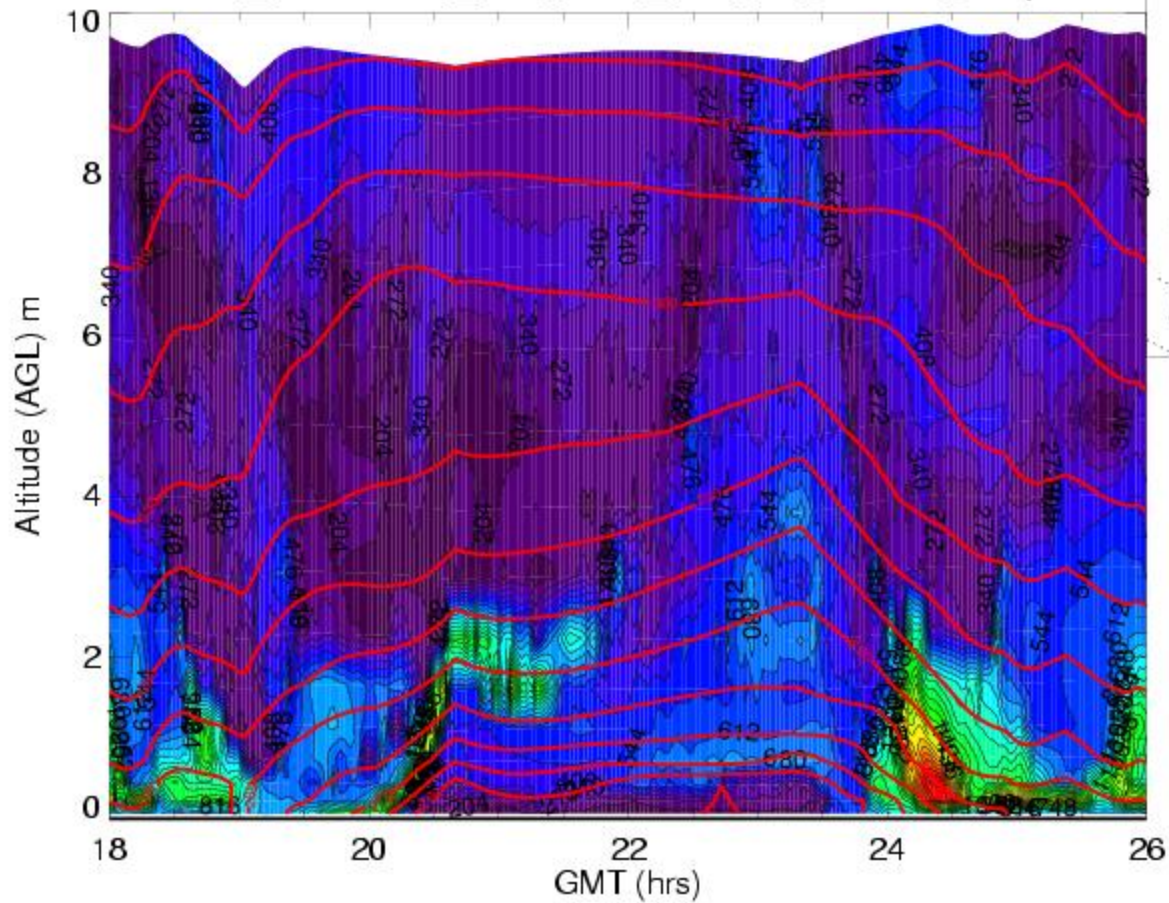


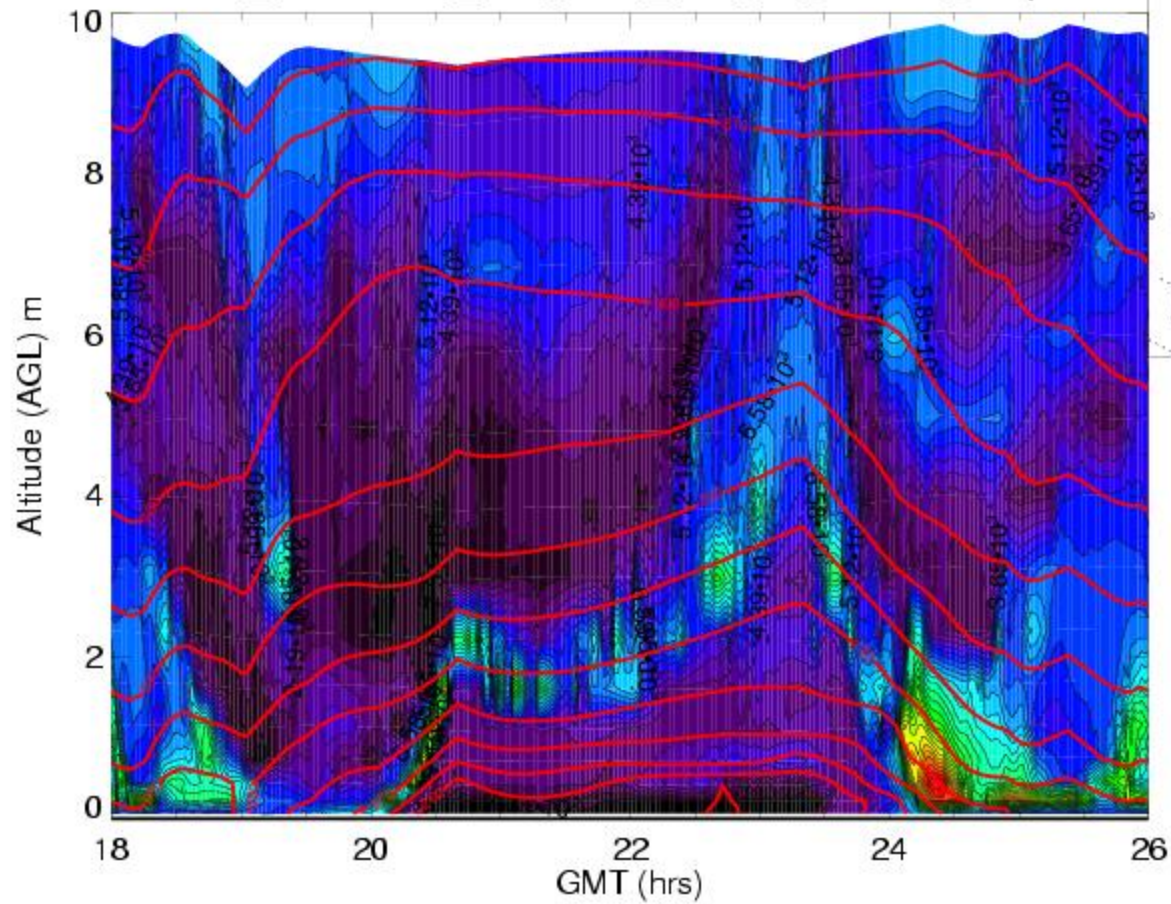
SFC 5-day Lagrangian Averaged PAN/NO_y 2008042300



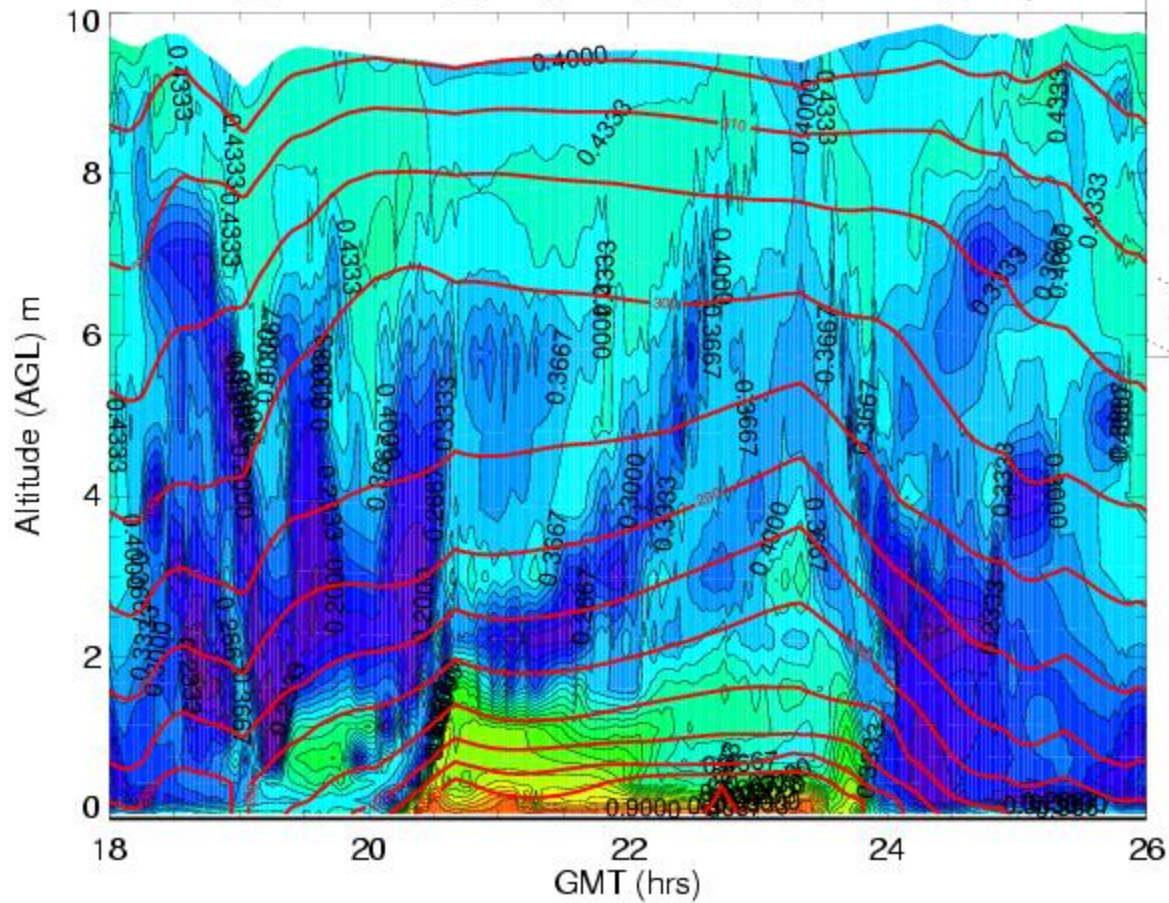


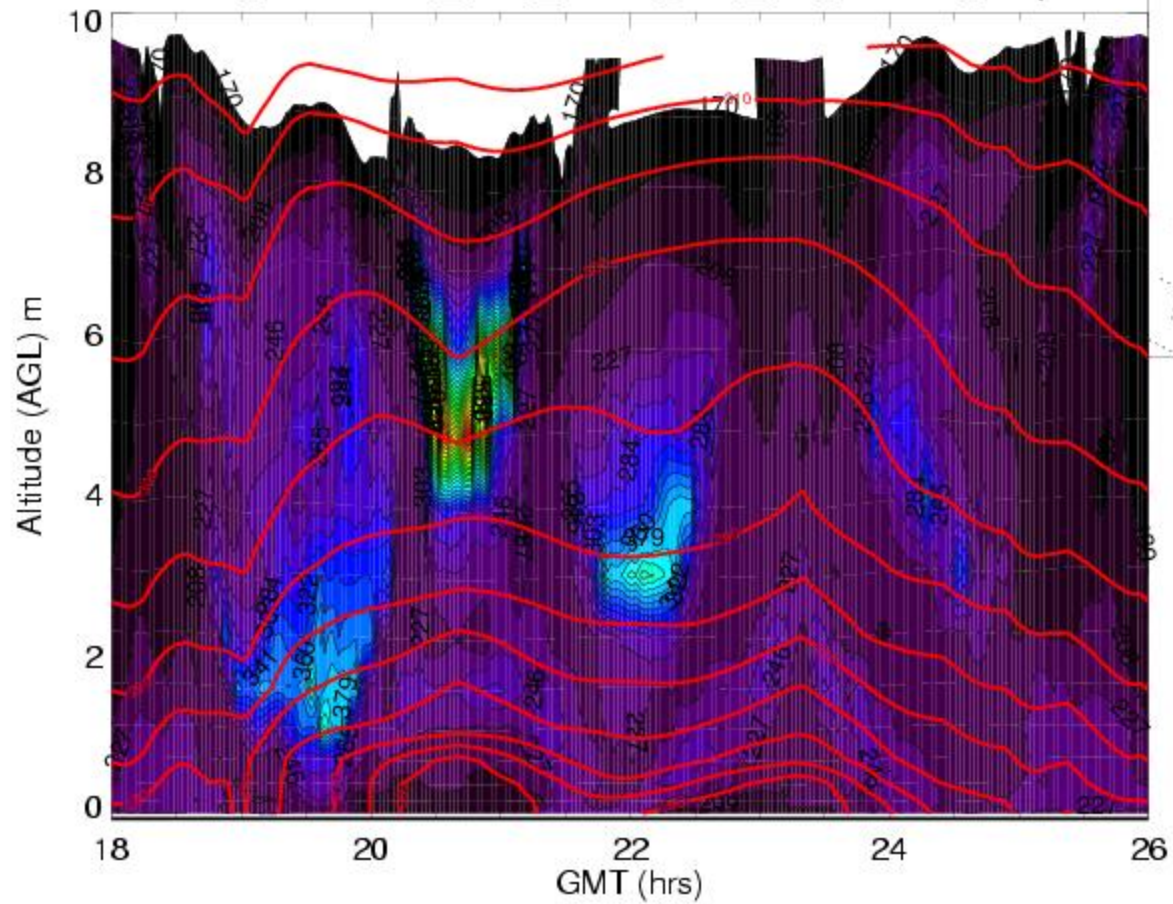
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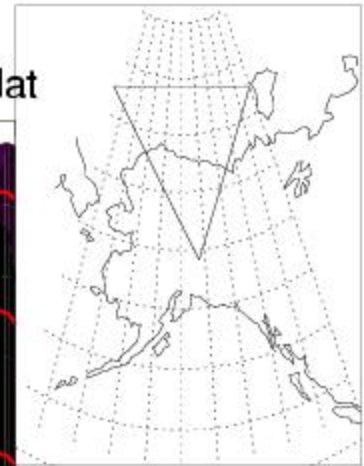
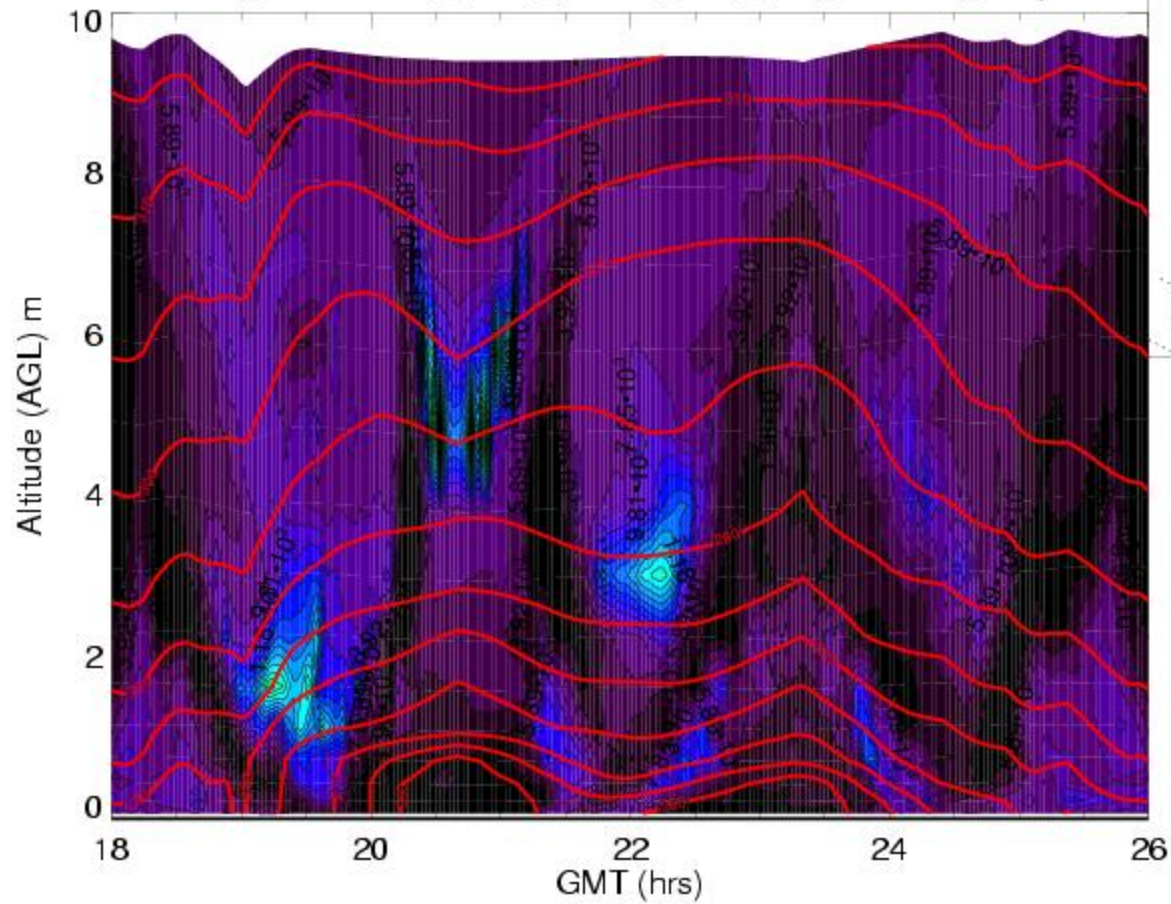


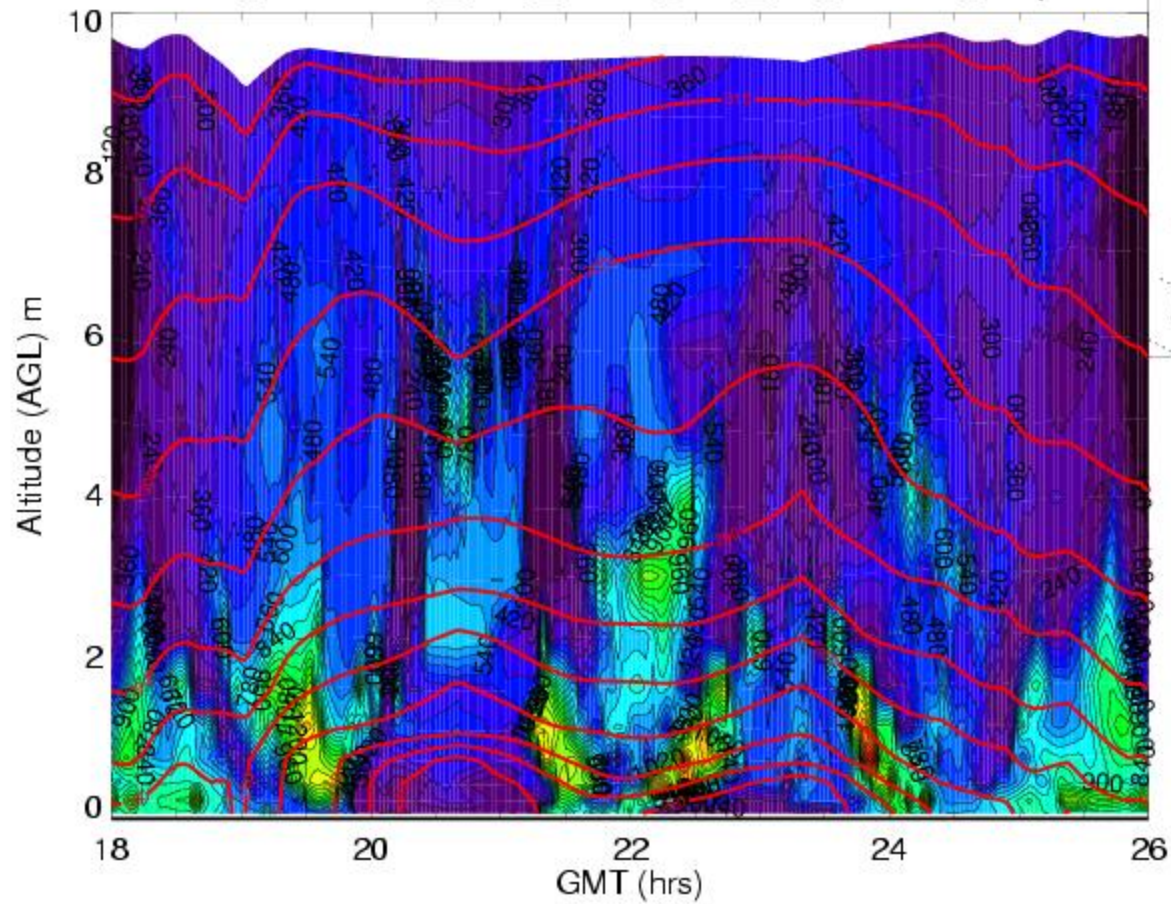
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108hr FX ipannoy CI= 0.0333333 max= 0.929073
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